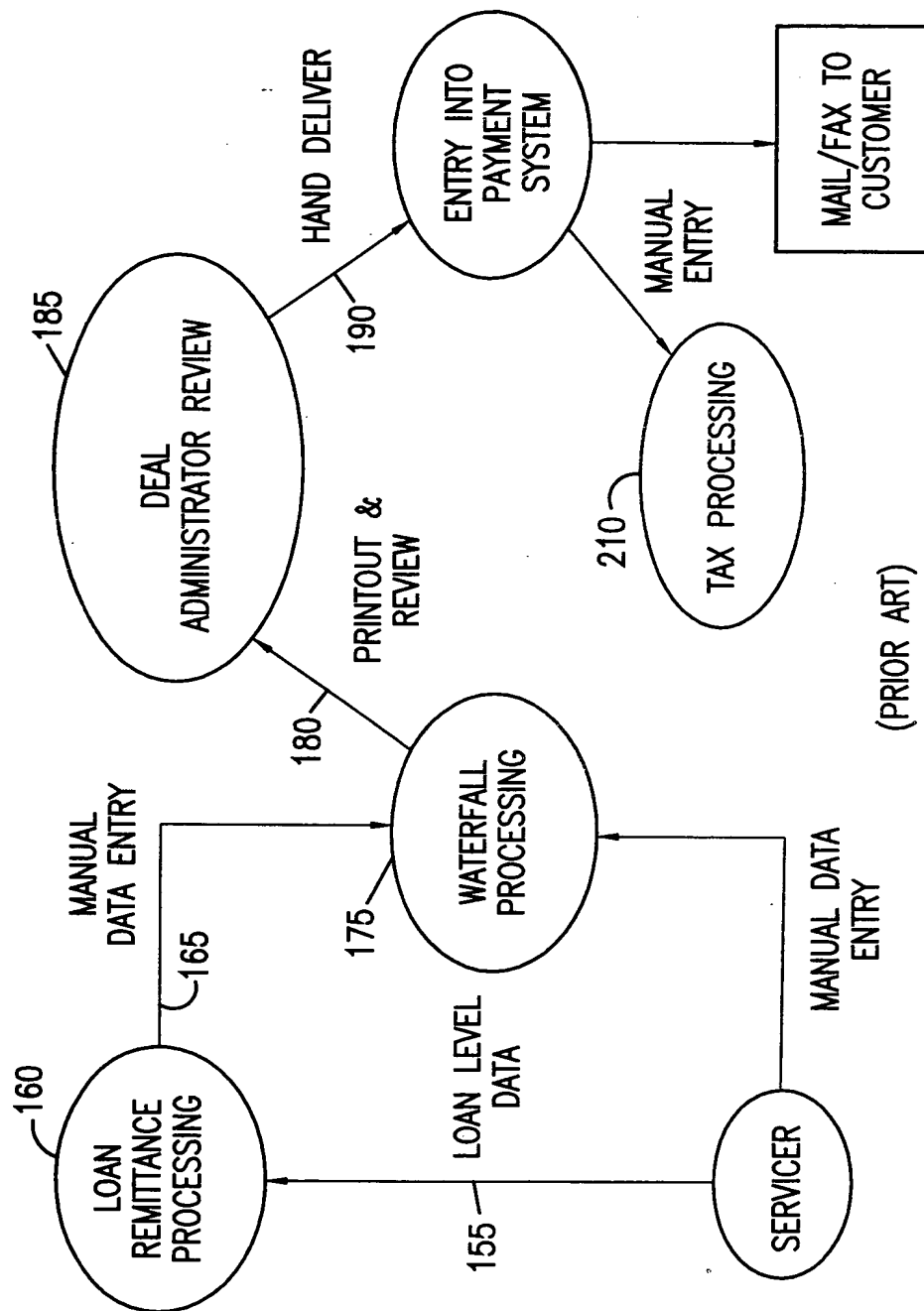


FIG. 1



(PRIOR ART)

FIG. 2

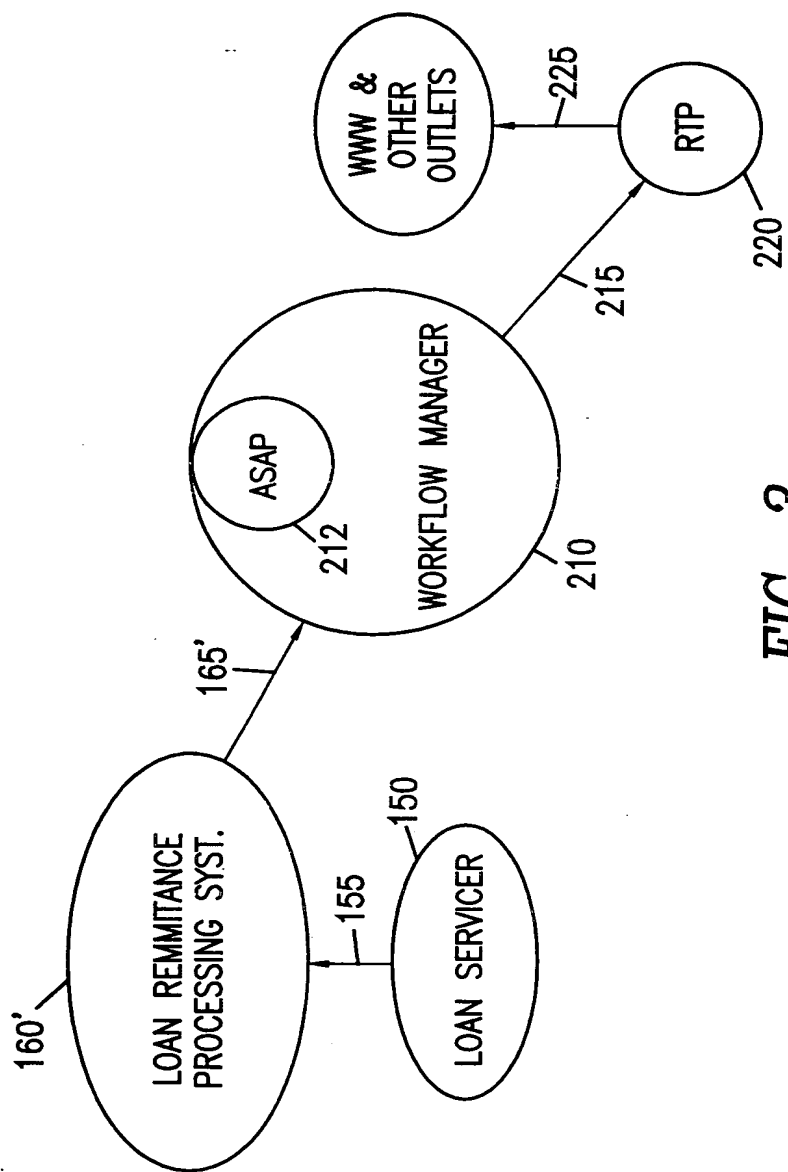


FIG. 3

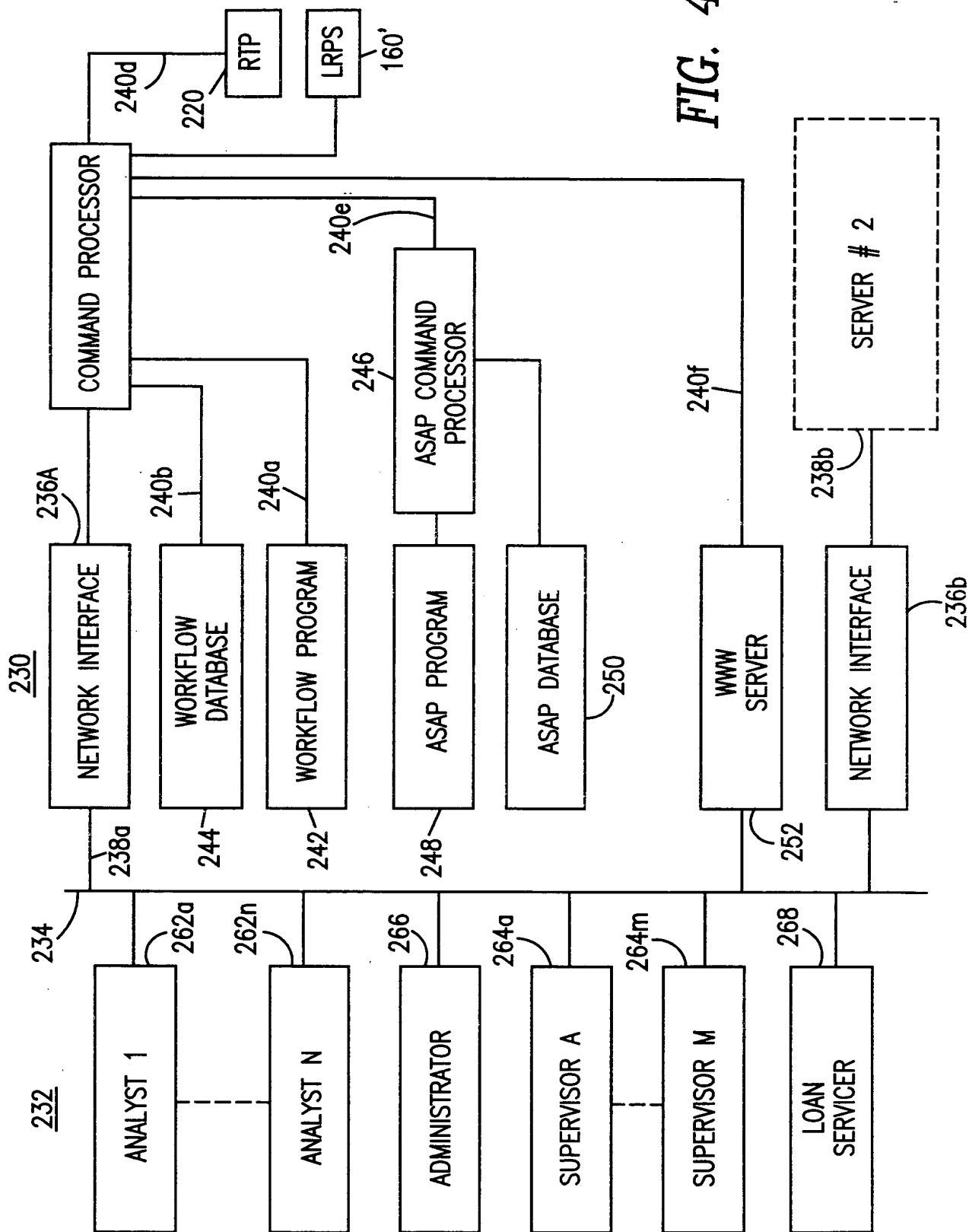


FIG. 4

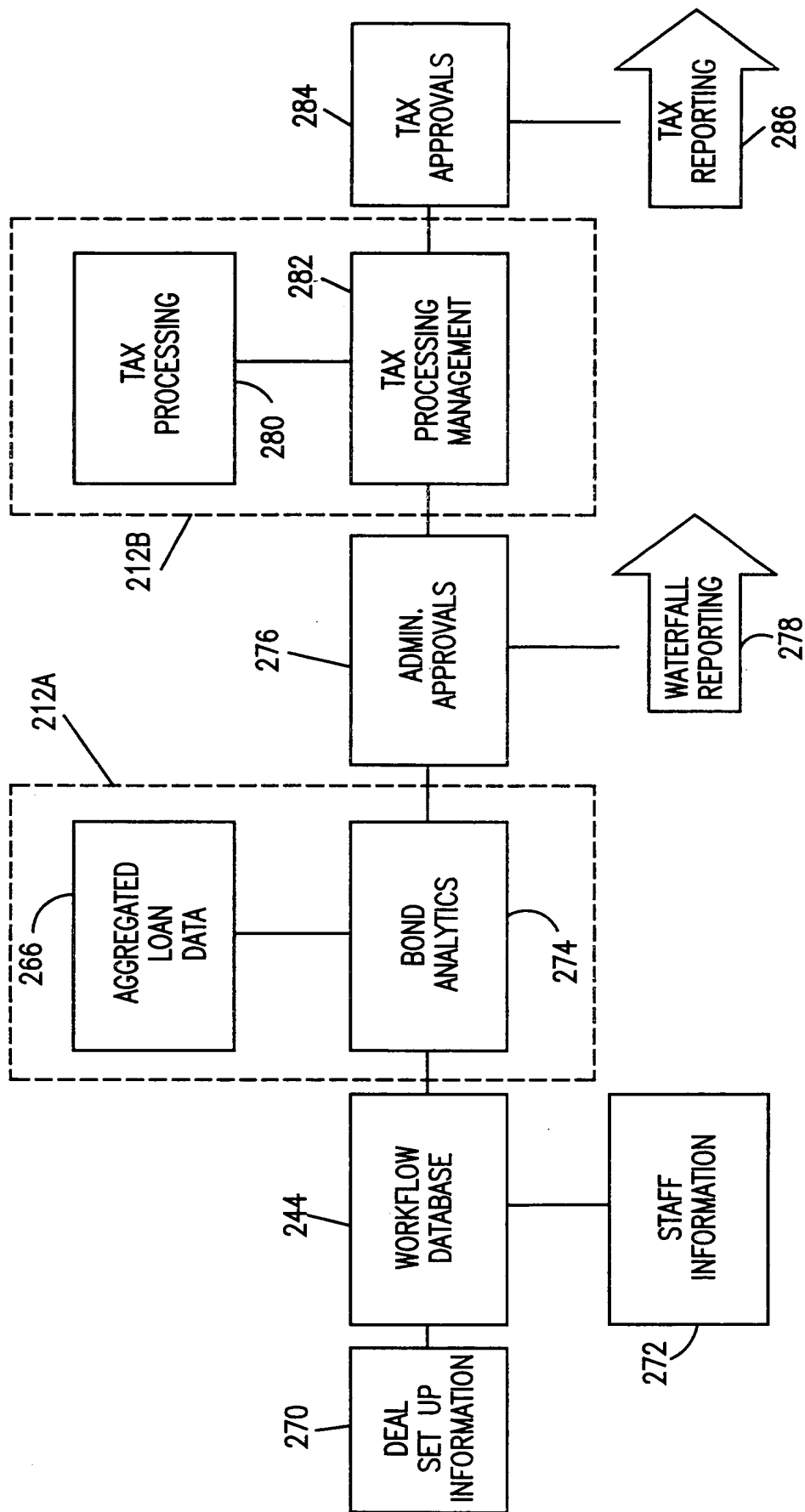


FIG. 5A

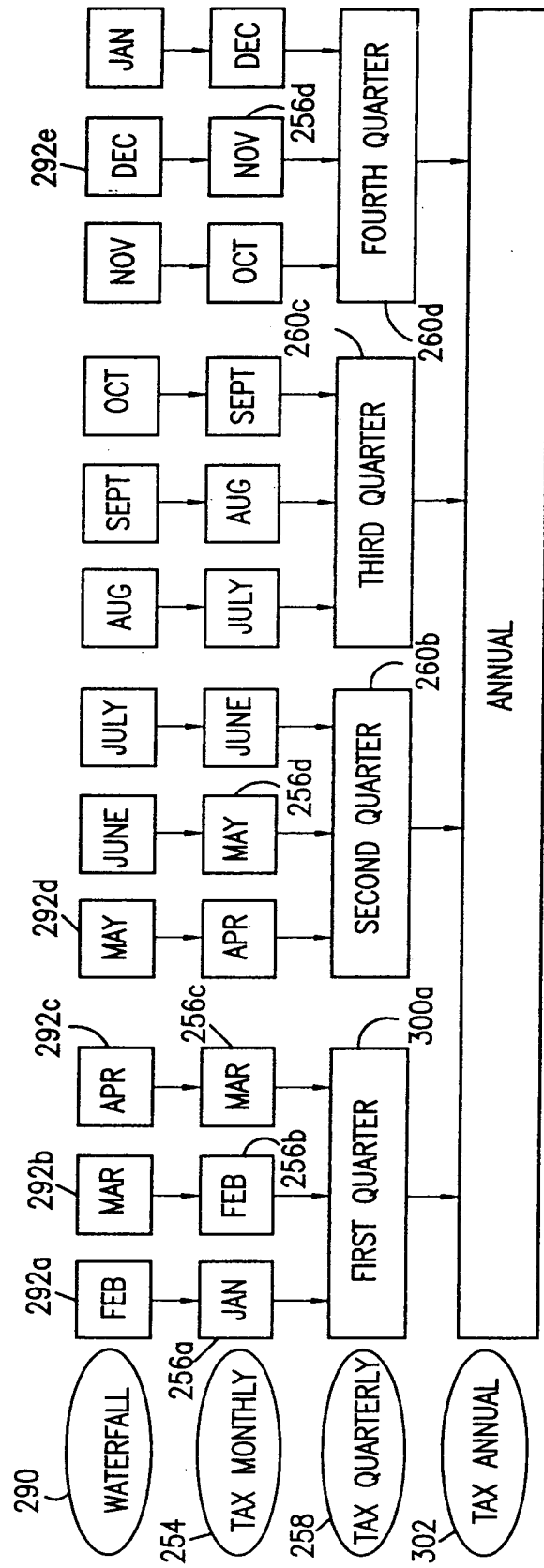


FIG. 5B

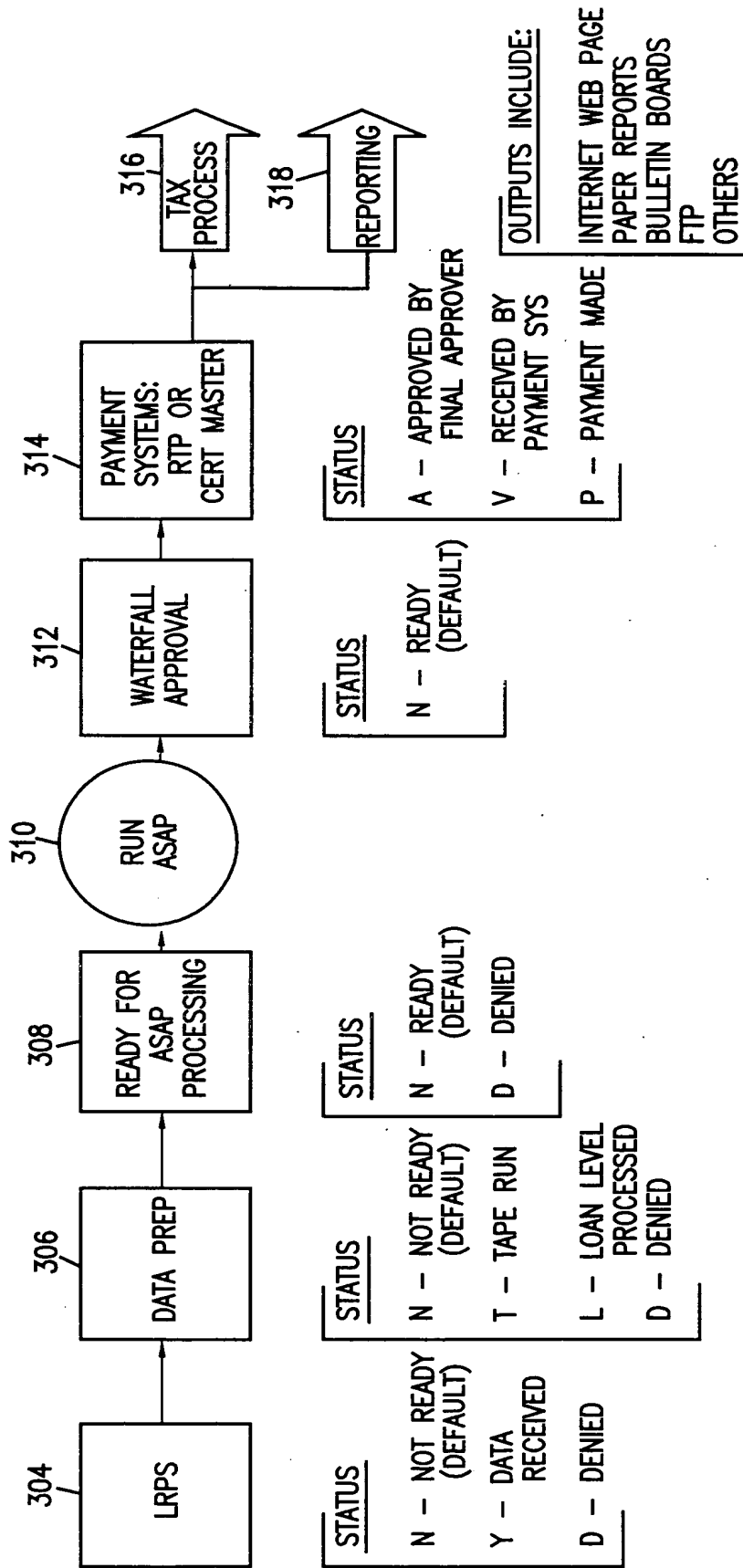


FIG. 5C

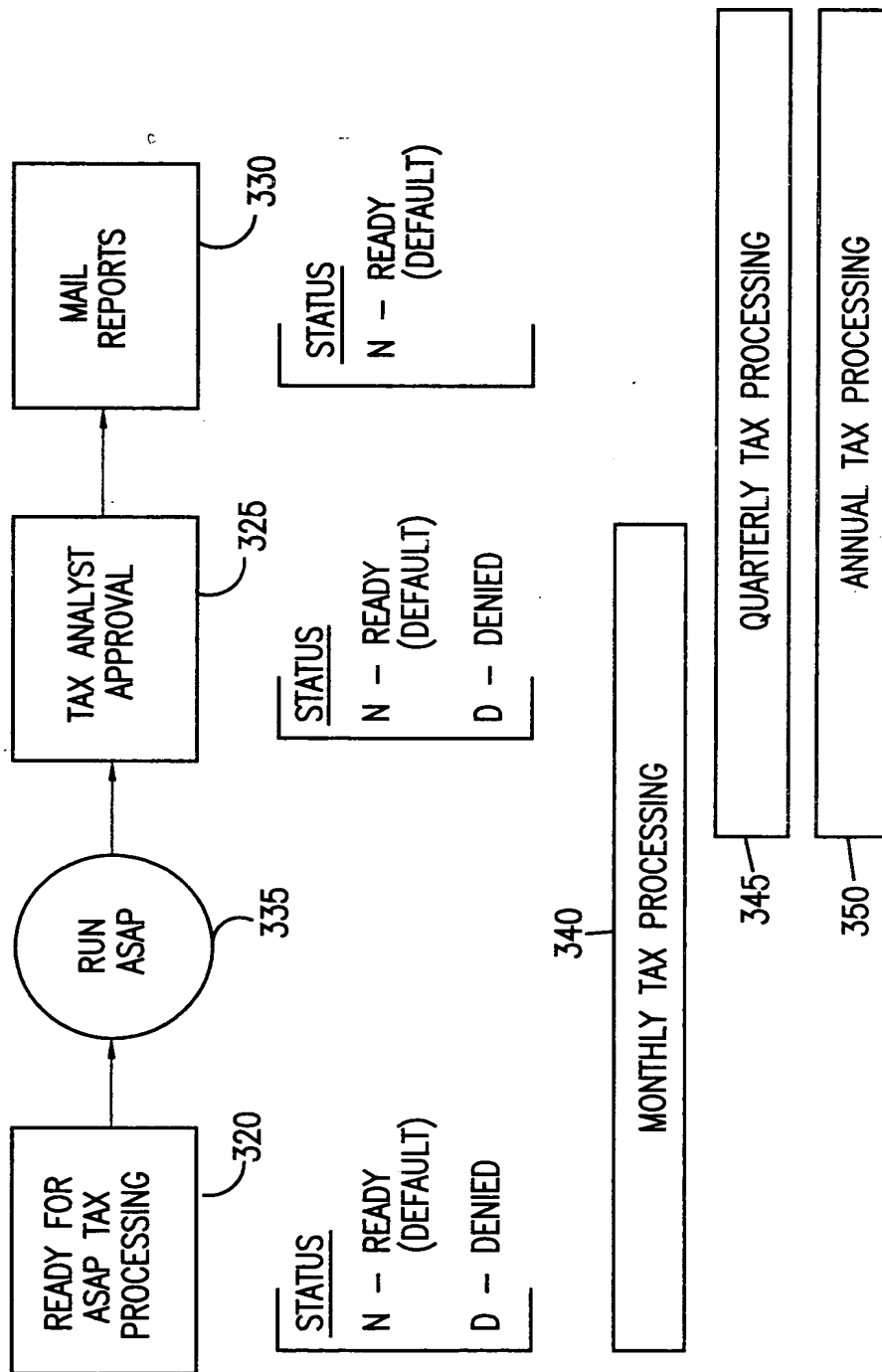


FIG. 5D

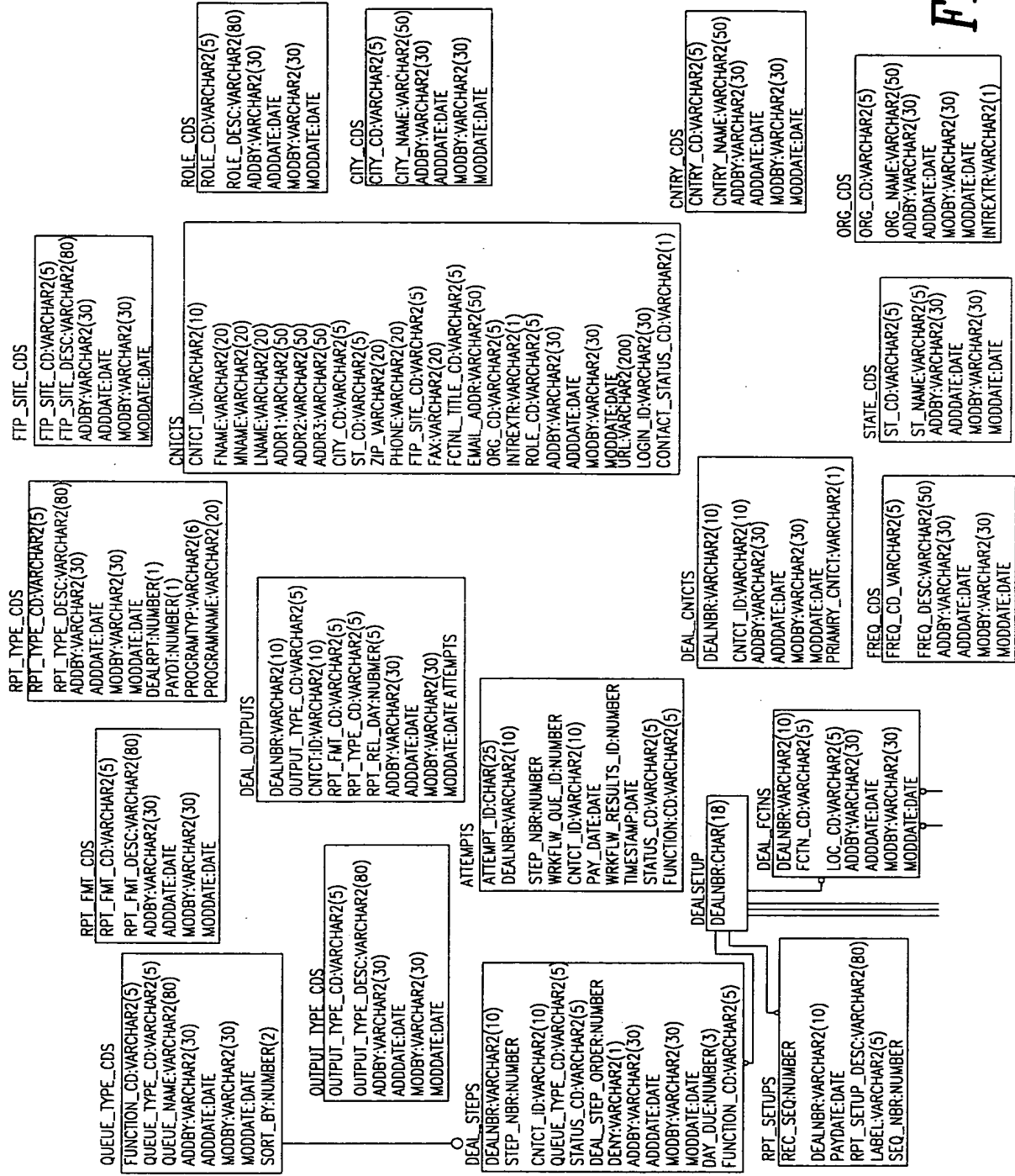


FIG. 5E

ORION--DISPLAY 1/<MAIN SUBJECT AREA>

FCTNL_TITLE_CDS

FCTNL_TITLE_CD:VARCHAR2(5)
FCTNL_TITLE_NAME:VARCHAR2(80)
ADDDBY:VARCHAR2(30)
ADDDATE:DATE
MODDBY:VARCHAR2(30)
MODDATE:DATE

ROLE_FCTN_CDS

ROLE_FCTN_CD:VARCHAR2(5)
ROLE_FCTN_DESC:VARCHAR2(80)
ADDDBY:VARCHAR2(30)
ADDDATE:DATE
MODDBY:VARCHAR2(30)
MODDATE:DATE

ROLE_PRIVS

SEQNBR:NUMBER
ROLE_CD:VARCHAR2(5)
ROLE_FCTN_CD:VARCHAR2(5)
ACTIVITY_CD:VARCHAR2(5)
PRIVILEGE:CHAR(1)
MENU_ITEM_CODE:VARCHAR2(50)
ADDDBY:VARCHAR2(30)
ADDDATE:DATE
MODDBY:VARCHAR2(30)
MODDATE:DATE

ACTIVITY_CDS

ACTIVITY_CD:VARCHAR2(5)
ACTIVITY_DESC:VARCHAR2(80)
ADDDBY:VARCHAR2(30)
ADDDATE:DATE
MODDBY:VARCHAR2(30)
MODDATE:DATE

GINNIE_MAE_TRANCHE_FACTOR

DEALNAME:VARCHAR2(10)
CLASSNAME:VARCHAR2(10)
REPORT_DEALNAME:VARCHAR2(14)
FINAL_DIST_DATE:VARCHAR(8)
FIRST_ACCRUAL_DATE:VARCHAR2(8)
PAYMENT_DAY:NUMBER(2)

ACCOUNT_TYPE_CDS

ACCOUNT_TYPE_CD:VARCHAR2(5)
ACCOUNT_TYPE_DESC:VARCHAR2(80)
ADDDBY:VARCHAR2(30)
ADDDATE:DATE
MODDBY:VARCHAR2(30)
MODDATE:DATE

ASAPUSERS

NAME:VARCHAR2(40)
LOGINID:VARCHAR2(20)
ACTIVE_YN:VARCHAR2(1)
WEIGHT1:NUMBER
WEIGHT2:NUMBER
FUNCTIONS:VARCHAR2(40)
ACTIVE:NUMBER(1)
CHANGE:NUMBER(1)
MODDBY:VARCHAR2(30)
MODDATE:DATE

LOAN_REPORTING

DEALNBR:VARCHAR2(10)
PAYDATE:DATE
LOANNBR:VARCHAR2(25)
TYPE:VARCHAR2(20)
GROUPNBR:NUMBER(6)
PREPAY_REQ_DATE:DATE
PREPAY_PENALTIES:NUMBER(14,2)
PREPAY_PREMIUMS:NUMBER(14,2)
PREPAY_AMOUNT:NUMBER(14,2)
REQ_PRINBAL:NUMBER(14,2)
REQ_LIQDN_PROCD:NUMBER(14,2)
REQ_BOOKVAL:NUMBER(14,2)

ATTRIBUTE_CDS

ATTRIBUTE_CD:VARCHAR2(5)
ATTRIBUTE_DESC:VARCHAR2(80)
ADDDBY:VARCHAR2(30)
ADDDATE:DATE
MODDBY:VARCHAR2(30)
MODDATE:DATE

PIECE_TABLE

PIECE_ID:NUMBER
PIECE_NBR:NUMBER
PIECE_DATA:VARCHAR2(4000)

INVEST_GROUPS

RECID:NUMBER
GROUPTYPE:VARCHAR2(3)
GROUPNBR:VARCHAR2(3)
SUM1:NUMBER(14,2)
SUM2:NUMBER(14,2)
PERCENT:NUMBER(14,2)
SORTBY:VARCHAR2(2)

APIUS_PARAM

UNIXPATH:VARCHAR2(200)

TOAD_TEMP

USERNAME:VARCHAR2(30)
STATEMENT:VARCHAR2(80)
POSITION:NUMBER

VERIFICATION_CALC

VERIFICATION_ID:NUMBER
SEQ_NBR:NUMBER(3)
OTHER:VARCHAR2(7)

INVEST_BAL

RECID:NUMBER
TYPEPER:CHAR(1)
TYPEREC:CHAR(1)
TYPETOT:CHAR(1)
TYPEUP:CHAR(1)
SORT:NUMBER(8,3)
NAME:VARCHAR2(200)
VALUE1:NUMBER(14,2)
VALUE2:NUMBER(14,2)
VALUE3:NUMBER(14,2)

CMB_LOANSCR_SETUP

DEALNBR:VARCHAR2(10)
PW_LOANHIST_FLD_NAME:VARCHAR2(35)
PW_LOANHIST_FLD_DESC:VARCHAR2(150)
SCREEN_LABEL:VARCHAR2(200)
PW_LOANHIST_FLD_DATATYPE:VARCHAR2(30)
DEAL_FIELD_SEQUENCE:NUMBER(10)
SUBPOOL:VARCHAR2(1)

COLLATERAL_TYPE_CDS

COLLATERAL_CD:VARCHAR2(5)
COLLATERAL_DESC:VARCHAR2(80)
ADDDBY:VARCHAR2(30)
ADDDATE:DATE
MODDBY:VARCHAR2(30)
MODDATE:DATE

OUTPUT_CONTROL

OUTPUT_SEQ:NUMBER
OUTPUT_TYPE_CD:VARCHAR2(5)
RPT_TYPE_CD:VARCHAR2(5)
RPT_RPT_FMT_CD:VARCHAR2(5)

VERMY

VARIABLE_CD:VARCHAR2(5)
VAR_DESC:VARCHAR2(30)
VAR_DESC_LONG:VARCHAR2(80)
TABLENAME:VARCHAR2(15)
FIELDNAME:VARCHAR2(40)
PERIODNAME:VARCHAR2(15)
PERIOD:NUMBER(3)

SECUREITUSER_AUDIT

SEQNBR:NUMBER
LOGINID:VARCHAR2(30)
ACTION:NUMBER(1)
CHANGE:NUMBER(1)
SECUREITGROUP:NUMBER(2)
ACTIVE:NUMBER(1)
MODDBY:VARCHAR2(30)
MODDATE:DATE

TAXBONDHISTORY_RESTATE

DEALNBR:VARCHAR2(10)
NAME:VARCHAR2(10)
PAYDATE:DATE
RESTATENBR:NUMBER(3)
PV:NUMBER(14,2)
SRPM:NUMBER(14,2)
ENDAP:NUMBER(14,2)
OID:NUMBER(14,2)
REMOID:NUMBER(14,2)
MDF:NUMBER(17,11)
OSI:NUMBER(14,2)
NOSI:NUMBER(14,2)
PRECAPOID:NUMBER(14,2)

TEMPDEALSETUP

DEALNBR: VARCHAR2(10)
NAME:VARCHAR2(255)
PRICINGDATE:DATE
CLOSINGDATE:DATE
CUTOFFDATE:DATE
FIRSTPAYDATE:DATE
CALLOPTCOLLATPCT:NUMBER(17,11)
CALLOPTBONDPCCT:NUMBER(17,11)
BONDPAYFREQ:NUMBER(3)
UNDERWRITER:VARCHAR2(30)
UNDERWRITERCONTACT:VARCHAR2(30)
DEALNBR:VARCHAR2(10)
UNDERWRITERPHONE:VARCHAR2(14)
UNDERWRITERFAX:VARCHAR2(14)
UNDERWRITEREMAIL:VARCHAR2(50)
ISSUER:VARCHAR2(30)
ISSUERCONTACT:VARCHAR2(30)
ISSUERPHONE:VARCHAR2(14)
ISSUERFAX:VARCHAR2(14)
ISSUEREMAIL:VARCHAR2(50)
TRUSTEE:VARCHAR2(30)
TRUSTEECONTACT:VARCHAR2(30)
TRUSTEEPHONE:VARCHAR2(14)
TRUSTEEFAX:VARCHAR2(14)
TRUSTEEEMAIL:VARCHAR2(50)
ANALYST:VARCHAR2(30)
ANALYSTCONTACT:VARCHAR2(30)
ANALYSTPHONE:VARCHAR2(14)
ANALYSTFAX:VARCHAR2(14)
ANALYSTEMAIL:VARCHAR2(50)
BONDADMIN:VARCHAR2(30)
BONDADMINCONTACT:VARCHAR2(30)
BONDADMINPHONE:VARCHAR2(14)
BONDADMINFAX:VARCHAR2(14)
BONDADMINEMAIL:VARCHAR2(50)
TAXADMIN:VARCHAR2(30)
TAXADMINCONTACT:VARCHAR2(30)
TAXADMINPHONE:VARCHAR2(14)
TAXADMINFAX:VARCHAR2(14)
TAXADMINEMAIL:VARCHAR2(50)
RULES:LONG
STRUCTTYPE:NUMBER(3)
IRSCENTER:VARCHAR2(50)
PERCENT7701:VARCHAR2(10)
PERCENT856:VARCHAR2(10)
ORICAIP:NUMBER(14,2)
AFR:NUMBER(17,11)
COLLATDETAIL:NUMBER(17,11)
PRICINGSENARIO:VARCHAR2(25)
TAKEOVERDATE:DATE
BONDSTRIP1286:NUMBER(17,11)
SERVICER:VARCHAR2(30)
SERVICERCONTACT:VARCHAR2(30)
SERVICERPHONE:VARCHAR2(14)
SERVICERFAX:VARCHAR2(14)
SERVICEREMAIL:VARCHAR2(50)
TRUSTEEADDRESS:VARCHAR2(50)
TRUSTEECITY:VARCHAR2(20)
TRUSTEESTATE:VARCHAR2(2)
TRUSTEEZIP:VARCHAR2(10)
RUNTAX:NUMBER(1)
RUNMP:NUMBER(1)
BONDACCUALPER:NUMBER(2)
COLLATINPVUSED:NUMBER(2)
MIDTERRAGG:NUMBER(2)
NONSTANDARDOPTIONS:NUMBER(14)
REMITRATE:NUMBER(17,11)
RECORDDATE:DATE

FIG. 5F

TEMP

DEALNBR: VARCHAR2(10)
 NAME: VARCHAR2(255)
 PRICINGDATE: DATE
 CLOSINGDATE: DATE
 CUTOFFDATE: DATE
 FIRSTPAYDATE: DATE
 CALLOPTCOLLATPCT: NUMBER(17,11)
 CALLOPTBONDPCT: NUMBER(17,11)
 BONDPAYFREQ: NUMBER(3)
 UNDERWRITER: VARCHAR2(30)
 UNDERWRITERCONTACT: VARCHAR2(30)
 UNDERWRITERPHONE: VARCHAR2(14)
 UNDERWRITERFAX: VARCHAR2(14)
 UNDERWRITERREMAIL: VARCHAR2(50)
 ISSUER: VARCHAR2(30)
 ISSUERCONTACT: VARCHAR2(30)
 ISSUERPHONE: VARCHAR2(14)
 ISSUERFAX: VARCHAR2(14)
 ISSUEREMAIL: VARCHAR2(50)
 TRUSTEE: VARCHAR2(30)
 TRUSTEECONTACT: VARCHAR2(30)
 TRUSTEEPHONE: VARCHAR2(14)
 TRUSTEEFAX: VARCHAR2(14)
 TRUSTEEEMAIL: VARCHAR2(50)
 ANALYST: VARCHAR2(30)
 ANALYSTCONTACT: VARCHAR2(30)
 ANALYSTPHONE: VARCHAR2(14)
 ANALYSTFAX: VARCHAR2(14)
 ANALYSTEMAIL: VARCHAR2(50)
 BONDADMIN: VARCHAR2(30)
 BONDADMINCONTACT: VARCHAR2(30)
 BONDADMINPHONE: VARCHAR2(14)
 BONDADMINFAX: VARCHAR2(14)
 BONDADMINEMAIL: VARCHAR2(50)
 TAXADMIN: VARCHAR2(30)
 TAXADMINCONTACT: VARCHAR2(30)
 TAXADMINPHONE: VARCHAR2(14)
 TAXADMINFAX: VARCHAR2(14)
 TAXADMINEMAIL: VARCHAR2(50)
 RULES: LONG
 STRUCTTYPE: NUMBER(3)
 IRSCENTER: VARCHAR2(50)
 PERCENT7701: VARCHAR2(10)
 PERCENT856: VARCHAR2(10)
 ORIGAP: NUMBER(14,2)
 AFR: NUMBER(17,11)
 COLLATDETAIL: NUMBER(17,11)
 PRICINGSCENARIO: VARCHAR2(25)
 TAKEOVERDATE: DATE
 BONDSTRIP1286: NUMBER(17,11)
 SERVICER: VARCHAR2(30)
 SERVICERCONTACT: VARCHAR2(30)
 SERVICERPHONE: VARCHAR2(14)
 SERVICERFAX: VARCHAR2(14)
 SERVICEREMAIL: VARCHAR2(50)
 TRUSTEEADDRESS: VARCHAR2(50)
 TRUSTEECITY: VARCHAR2(20)
 TRUSTEESTATE: VARCHAR2(2)
 TRUSTEEZIP: VARCHAR2(10)
 RUNTAX: NUMBER(1)
 RUNMP: NUMBER(1)
 BONDACCRAUALPER: NUMBER(2)
 COLLATINPVUSED: NUMBER(2)
 MIDTIERAGG: NUMBER(2)
 NONSTANDARDOPTIONS: NUMBER(14)
 REMITRATE: NUMBER(17,11)
 RECORDDATE: DATE

LOANHISTORY_RESTATE

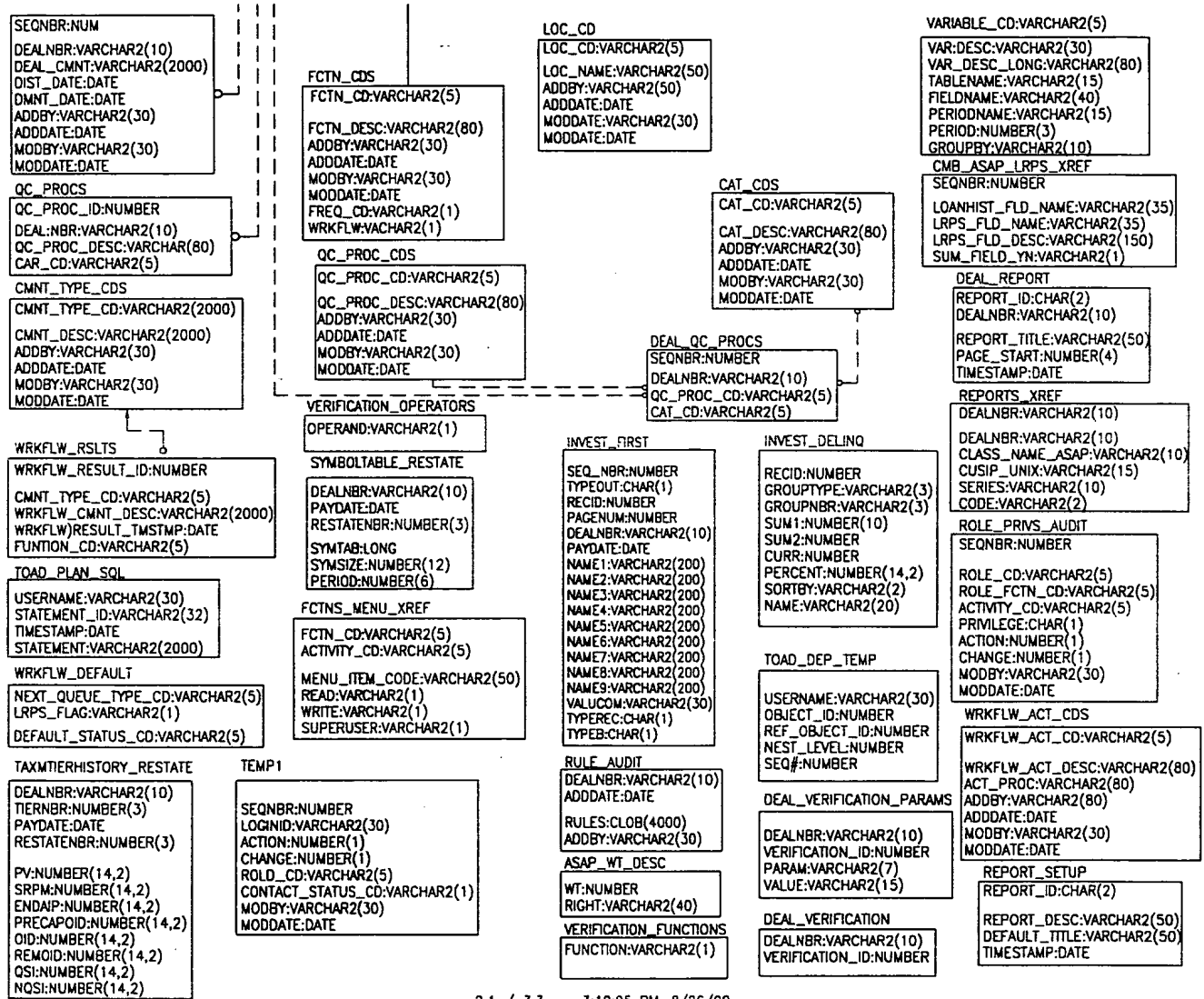
DEALNBR: VARCHAR2(10)
 GROUPNBR: NUMBER(6)
 LOANNBR: VARCHAR2(25)
 PAYDATE: DATE
 RESTATENBR: NUMBER(3)
 PROSPECTUSID: VARCHAR2(10)
 CURBEGSCHEDBAL: NUMBER(14,2)
 CURRENDSCHEDBAL: NUMBER(14,2)
 PAIDTODATE: DATE
 CURRIDXRATE: NUMBER(17,11)
 CURRRNOTERATE: NUMBER(17,11)
 MATURITYDATE: DATE
 SERVICEFEERATE: NUMBER(17,11)
 STRIPRATE1: NUMBER(17,11)
 STRIPRATE2: NUMBER(17,11)
 STRIPRATE3: NUMBER(17,11)
 STRIPRATE4: NUMBER(17,11)
 STRIPRATE5: NUMBER(17,11)
 NETPASSTHRURATE: NUMBER(17,11)
 NEXTIDRATE: NUMBER(17,11)
 NEXTNOTERATE: NUMBER(17,11)
 NEXTRATEADJDATE: DATE
 NEXTPMTADJDATE: DATE
 SCHEDPRINAMT: NUMBER(14,2)
 TOTALSCHEDPIDUE: NUMBER(14,2)
 NEGAMDEFIMTAMT: NUMBER(14,2)
 UNSCHEDPRINCOLLAT: NUMBER(14,2)
 OTHERPRINADJ: NUMBER(14,2)
 LIQPREMTDATE: DATE
 PREPMTPENYLDRCVD: NUMBER(14,2)
 PREPMTINEXCESS: NUMBER(14,2)
 LIQPREPMTCODE: NUMBER(2)
 MOSTRECENTASERPCT: NUMBER(17,11)
 MOSTRECENTASERDATE: DATE
 CUMULATIVEASERAMT: NUMBER(14,2)
 ACTUALBAL: NUMBER(14,2)
 TOTALPIADVOUTSTD: NUMBER(14,2)
 TOTALIADVOUTSTD: NUMBER(14,2)
 OTHEREXPADVOUTSTD: NUMBER(14,2)
 LOANSTATUS: NUMBER(2)
 BANKRUPTCY: NUMBER(3)
 FORECLOSUREDATE: DATE
 REODATE: DATE
 BANKRUPTCYDATE: DATE
 NETPROCEEDSRCVDONLIQ: NUMBER(14,2)
 LIQEXP: NUMBER(14,2)
 REALIZEDLOSSTOTRUST: NUMBER(14,2)
 LASTMODDATE: DATE
 MODCODE: NUMBER(2)
 MODNOTERATE: NUMBER(17,11)
 MODPMTRATE: NUMBER(17,11)
 PRECEDINGFYREV: NUMBER(14,2)
 PRECEDINGFYEXP: NUMBER(14,2)
 PRECEDINGFYNOI: NUMBER(14,2)
 PRECEDINGFYDEBTSRVCAMT: NUMBER(14,2)
 PRECEDINGFYDSCR: NUMBER(14,2)
 PRECEDINGFYPHYSOCC: NUMBER(14,2)
 PRECEDINGFYFINASOFDATE: DATE
 SECPCEDINGFYREV: NUMBER(14,2)
 SECPCEDINGFYEXP: NUMBER(14,2)
 SECPCEDINGFYNOI: NUMBER(14,2)
 SECPCEDINGFYDBTSRVC: NUMBER(14,2)
 SECPCEDINGFYDSCR: NUMBER(14,2)
 SECPCEDINGFYFINASOFDATE: DATE
 SECPCEDINGFYPHYSOCC: NUMBER(14,2)
 MOSTRECENTFYTDREV: NUMBER(14,2)
 MOSTRECENTFYTDEXP: NUMBER(14,2)
 MOSTRECENTFYTDNOI: NUMBER(14,2)
 MOSTRECENTFYTDDBTSRVC: NUMBER(14,2)
 MOSTRECENTFYTDSCR: NUMBER(14,2)

LRPS_LOANHISTORY

DEALNBR: VARCHAR2(10)
 GROUPNBR: NUMBER(6)
 LOANNBR: VARCHAR2(25)
 PAYDATE: DATE
 PROSPECTUSID: VARCHAR2(10)
 CURBEGSCHEDBAL: NUMBER(14,2)
 CURRENDSCHEDBAL: NUMBER(14,2)
 PAIDTODATE: DATE
 CURRIDXRATE: NUMBER(17,11)
 CURRRNOTERATE: NUMBER(17,11)
 MATURITYDATE: DATE
 SERVICEFEERATE: NUMBER(17,11)
 STRIPRATE1: NUMBER(17,11)
 STRIPRATE2: NUMBER(17,11)
 STRIPRATE3: NUMBER(17,11)
 STRIPRATE4: NUMBER(17,11)
 STRIPRATE5: NUMBER(17,11)
 NETPASSTHRURATE: NUMBER(17,11)
 NEXTIDRATE: NUMBER(17,11)
 NEXTNOTERATE: NUMBER(17,11)
 NEXTRATEADJDATE: DATE
 NEXTPMTADJDATE: DATE
 SCHEDPRINAMT: NUMBER(14,2)
 TOTALSCHEDPIDUE: NUMBER(14,2)
 NEGAMDEFINAMT: NUMBER(14,2)
 UNSCHEDPRINCOLLAT: NUMBER(14,2)
 OTHERPRINADJ: NUMBER(14,2)
 LIQPREMTDATE: DATE
 PREPMTPENYLDRCVD: NUMBER(14,2)
 PREPMTINEXCESS: NUMBER(14,2)
 LIQPREPMTCODE: NUMBER(2)
 MOSTRECENTASERPCT: NUMBER(17,11)
 MOSTRECENTASERDATE: DATE
 CUMULATIVEASERAMT: NUMBER(14,2)
 ACTUALBAL: NUMBER(14,2)
 TOTALPIADVOUTSTD: NUMBER(14,2)
 TOTALIADVOUTSTD: NUMBER(14,2)
 OTHEREXPADVOUTSTD: NUMBER(14,2)
 LOANSTATUS: NUMBER(2)
 BANKRUPTCY: NUMBER(3)
 FORCLOSUREDATE: DATE
 REODATE: DATE
 BANKRUPTCYDATE: DATE
 NETPROCEEDSRCVDONLIQ: NUMBER(14,2)
 LIQEXP: NUMBER(14,2)
 REALIZEDLOSSTOTRUST: NUMBER(14,2)
 LASTMODDATE: DATE
 MODCODE: NUMBER(2)
 MODNOTERATE: NUMBER(17,11)
 MODPMTRATE: NUMBER(17,11)
 PRECEDINGFYREV: NUMBER(14,2)
 PRECEDINGFYEXP: NUMBER(14,2)
 PRECEDINGFYNOI: NUMBER(14,2)
 PRECEDINGFYDEBTSRVCAMT: NUMBER(14,2)
 PRECEDINGFYDSCR: NUMBER(14,2)
 PRECEDINGFYPHYSOCC: NUMBER(14,2)
 PRECEDINGFYFINASOFDATE: DATE
 SECPCEDINGFYREV: NUMBER(14,2)
 SECPCEDINGFYEXP: NUMBER(14,2)
 SECPCEDINGFYNOI: NUMBER(14,2)
 SECPCEDINGFYDBTSRVC: NUMBER(14,2)
 SECPCEDINGFYDSCR: NUMBER(14,2)
 SECPCEDINGFYFINASOFDATE: DATE
 SECPCEDINGFYPHYSOCC: NUMBER(14,2)
 MOSTRECENTFYTDREV: NUMBER(14,2)
 MOSTRECENTFYTDEXP: NUMBER(14,2)
 MOSTRECENTFYTDNOI: NUMBER(14,2)
 MOSTRECENTFYTDDBTSRVC: NUMBER(14,2)
 MOSTRECENTFYTDSCR: NUMBER(14,2)

FIG. 5G

ORION--DISPLAY 1/<MAIN SUBJECT AREA>



2.1 / 3.3 -- 3:10:05 PM, 8/26/99

FIG. 5H

ORION -- DISPLAY 1/ <MAIN SUBJECT AREA>

TOAD_PLAN_TABL

STATEMENT_ID:VARCHAR2(30)
TIMESTAMP:DATE
REMARKS:VARCHAR2(80)
OPERATION:VARCHAR2(30)
OPTIONS:VARCHAR2(30)
OBJECT_MODE:VARCHAR(128)
OBJECT_OWNER:VARCHAR2(30)
OBJECT_NAME:VARCHAR2(30)
OBJECT_INSTANCE:VARCHAR2(30)
OBJECT_TYPE:VARCHAR2(30)
OPTIMIZER:VARCHAR2(255)
SEARCH_COLUMNS:NUMBER
ID:NUMBER
PARENT_ID:NUMBER
POSITION:NUMBER
COST:NUMBER
CARDINALITY:NUMBER
BYTES:NUMBER
OTHER_TAG:VARCHAR2(255)
OPTIMIZER:VARCHAR2(255)
OTHER:LONG

RATING_AGENCY_CDS

AGENCY_CD:VARCHAR2(5)
AGENCY_DESC:VARCHAR2(20)
ADDDY:VARCHAR2(30)
ADDDATE:DATE
MODBY:VARCHAR2(30)
MODDATE:DATE

DEALSPECIFIC_RESTATE

DEALNBR:VARCHAR2(10)
NAME:VARCHAR2(200)
PAYDATE:DATE
DEALSPECNBR:NUMBER(10)
RESTATENBR:NUMBER(3)
VALUE:NUMBER(2,11)
ASSET_LIABILITY:CHAR(1)
TIERNBR:NUMBER(2)
SORTORDER:NUMBER(8,3)
ALPHAVALUE:VARCHAR2(200)

ATTEMPTS_HIST

ATTEMPT_ID:CHAR(25)
DEALNBR:VARCHAR2(10)
STEP_NBR:NUMBER
WRKFLW_QUEUE_ID:NUMBER
CNTCT_ID:VARCHAR2(10)
PAY_DATE:DATE
WRKFLW_RESULT_ID:NUMBER
TIMESTAMP:DATE
STATUS_CD:VARCHAR2(5)
FUNCTION_CD:VARCHAR2(5)

STATUS_CDS

STATUS_CD:VARCHAR2(5)
STATUS_DESC:VARCHAR2(80)
ADDDY:VARCHAR2(30)
ADDDATE:DATE
MODBY:VARCHAR2(30)
MODDATE:DATE

TAXQTRHISTORY_RESTATE

DEALNBR:VARCHAR2(10)
TIERNBR:NUMBER(3)
QTR:NUMBER(1)
YEAR:NUMBER(4)
RESTATENBR:NUMBER(3)
ENDCAPITAL:NUMBER(14,2)
NETINCOME:NUMBER(14,2)
ENDRESIDUALBASIS:NUMBER(14,2)
DAILYACCRUAL:NUMBER(14,2)

INVEST_REO_PREPAY

RECID:NUMBER
GROUPTYPE:CHAR(1)
LOANNBR:VARCHAR2(10)
GROUPNBR:CHAR(1)
REODATE:CHAR(12)
BAL1:NUMBER(14,2)
BAL2:NUMBER(14,2)
BAL3:NUMBER(14,2)

VERIFICATION

VERIFICATION_ID:NUMBER
VERIFICATION_DESC:VARCHAR2(100)
FCTN_CD:VARCHAR2(5)
QUEUE_TYPE_CD:VARCHAR2(5)
TYPE_CD:VARCHAR2(20)
RESULT:VARCHAR2(10)
PARAM:VARCHAR2(1)

CREDIT_ENHANCE_CDS

CREDIT_ENHANCE_CD:VARCHAR2(5)
CREDIT_ENHANCE_DESC:VARCHAR2(80)
ADDDY:VARCHAR2(30)
ADDDATE:DATE
MODBY:VARCHAR2(30)
MODDATE:DATE

DEALSUMTEMP

DEALNBR:VARCHAR2(10)
SORTORDER:NUMBER(2)
TYPE:CHAR(1)
CODE:VARCHAR2(5)
TYPEDESC:VARCHAR2(100)

STRUCTURE_CDS

STRUCTURE_CD:VARCHAR2(5)
STRUCTURE_DESC:VARCHAR2(80)
ADDDY:VARCHAR2(30)
ADDDATE:DATE
MODBY:VARCHAR2(30)
MODDATE:DATE

RESTATE_TIMESTAMP

RESTATENBR:NUMBER(3)
ATTEMPT_ID:CHAR(25)

CNTCTS_AUDIT

SEQNBR:NUMBER
CNTCT_ID:VARCHAR2(10)
LOGINID:VARCHAR2(30)
ACTION:NUMBER(1)
CHANGE:NUMBER(1)
ROLE_CD:VARCHAR2(5)
CONTACT_STATUS_CD:VARCHAR2(1)
MODBY:VARCHAR2(30)
MODDATE:DATE

DEAL_CURR_RATINGS

DEALNBR:VARCHAR2(10)
CLASSNAME:VARCHAR2(10)
AGENCY_CD:VARCHAR2(5)
BEGIN_DATE:DATE
RATING:VARCHAR2(10)

DEAL_ORIG_RATINGS

DEALNBR:VARCHAR2(10)
CLASSNAME:VARCHAR2(10)
AGENCY_ID:VARCHAR2(5)
ORIG_RATING:VARCHAR2(10)

DEAL_SUMMARY

DEALNBR:VARCHAR2(10)
MODELED_BY:VARCHAR2(40)
PAY_DAY:NUMBER(2)
COLLATERAL_TYPE:VARCHAR2(100)
DEAL_STRUCTURE:VARCHAR2(100)
KEY_DATE:VARCHAR2(2000)
CREDIT_ENHANCE:VARCHAR2(100)
ACCOUNT_TYPE:VARCHAR2(100)
FLOW_OF_FUNDS:VARCHAR2(2000)
ALLOCATION_LOSS:VARCHAR2(2000)
FEES:VARCHAR2(2000)
AVAILABLE_FUNDS:VARCHAR2(2000)
OTHER:VARCHAR2(2000)
ATTRIBUTES:VARCHAR2(100)
LRPS_FLAG:VARCHAR2(1)
DEAL_STATUS:VARCHAR2(1)
TRANSACTION_ID:VARCHAR2(12)

WRKFLW_EXTERNAL

DEALNBR:VARCHAR2(10)
WRKFLW_ACT_CD:VARCHAR2(5)
FUNCTION_CD:VARCHAR2(5)

GINNIE_MAE_SERIES_FACTOR

DEALNAME:VARCHAR2(10)
REPORT_DEALNAME:VARCHAR2(14)
SETTLEMENT_DATE:VARCHAR2(8)
FIRST_ACCRUAL_DATE:VARCHAR2(8)
CURRENT_WAC:VARCHAR2(10)
PAYMENT_DAY:NUMBER(2)

VERIFICATION_PARAMS

VERIFICATION_ID:NUMBER
PARAM:VARCHAR2(7)
PARAM_DESC:VARCHAR2(30)
PARAM_FILED_TYPE:VARCHAR2(10)

BONDHISTORY_RESTATE

DEALNBR:VARCHAR2(10)
NAME:VARCHAR2(10)
PAYDATE:DATE
RESTATENBR:NUMBER(3)
IDXRATE:DATE
CURRENTBAL:NUMBER(14,2)
PRINPAID:NUMBER(14,2)
INTACCRUED:NUMBER(14,2)
INTPAID:NUMBER(14,2)
ACTUALCOST:NUMBER(14,2)
ADDLINT:NUMBER(14,2)
ADDLPTIN:NUMBER(14,2)
DEFERREDINT:NUMBER(14,2)
DEFERREDINTPAID:NUMBER(14,2)
INTLOSS:NUMBER(14,2)
NOTIONALBAL:NUMBER(14,2)
OTHER1:NUMBER(14,2)
OTHER2:NUMBER(14,2)
OTHER3:NUMBER(14,2)
OTHER4:NUMBER(14,2)
OTHER5:NUMBER(14,2)
CURRENTCPN:NUMBER(17,11)
NEXTCPN:NUMBER(17,11)
UNPAIDPRIN:NUMBER(14,2)
REALIZEDLOSS:NUMBER(14,2)
YLDMAINTPD:NUMBER(14,2)
TOTALDEFERREDINT:NUMBER(14,2)
TOTALREALIZEDLOSS:NUMBER(14,2)
REALIZEDLOSSPAID:NUMBER(14,2)
TOALUNPAIDPRIN:NUMBER(14,2)
ACCRUALAMOUNT:NUMBER(14,2)
SHORTFALLS:NUMBER(14,2)
SHORTFALLSPAID:NUMBER(14,2)
TOTALSHORTFALLS:NUMBER(14,2)

TAXGROUPHISTORY_RESTATE

DEA:NBR:VARCHAR2(10)
GROUPNBR:NUMBER(6)
PAYDATE:DATE
RESTATENBR:NUMBER(3)
PV:NUMBER(14,2)
SRPM:NUMBER(14,2)
ENDAP:NUMBER(14,2)
OID:NUMBER(14,2)
REMOID:NUMBER(14,2)
QSI:NUMBER(14,2)
NQS:NUMBER(14,2)
PRECAPOID:NUMBER(14,2)

WRKFLW_QUEUE_STATUS

WRKFLW_QUEUE_ID:NUMBER
WRKFLW_ACT_CD:VARCHAR2(5)
STATUS_CD:VARCHAR2(5)
QUEUE_TYPE_CD:VARCHAR2(5)
NEXT_STATUS_CD:VARCHAR2(5)
PRIVILEGE:CHAR(1)
FUNCTION_CD:VARCHAR2(5)

CMB_MESSAGES

ERROR_CODE:VARCHAR2(10)
ERROR_DESC:VARCHAR2(100)
ADDED_BY:VARCHAR2(30)
ADDED_DATE:DATE
MODIFIED_BY:VARCHAR2(30)
MODIFIED_DATE:DATE
APPS_CD:VARCHAR2(10)

VERIFICATION_VARIABLES

VERIFICATION_ID:NUMBER
VARIABLE_CD:VARCHAR2(5)

ERRORTABLE

SRLNO:VARCHAR2(10)
ERRORLOG:VARCHAR2(200)

TAX_ENTITY_CDS

TAX_ENTITY_CD:VARCHAR2(5)
TAX_ENTITY_DESC:VARCHAR2(5)
ADDDATE:DATE
MODBY:VARCHAR2(30)
MODDATE:DATE

INVEST_WATER

RECID:NUMBER
SORTORDER:NUMBER(8,3)
GROUPTYPE:VARCHAR2(3)
NAME1:VARCHAR2(200)
NAME2:VARCHAR2(200)
NAME3:VARCHAR2(200)
NAME4:VARCHAR2(200)
NAME5:VARCHAR2(200)
NAME6:VARCHAR2(200)
NAME7:VARCHAR2(200)
NAME8:VARCHAR2(200)
NAME9:VARCHAR2(200)
VALUE:NUMBER(14,2)
VALUECOM:VARCHAR2(30)
TYPEREC:CHAR(1)
TYPEWATER:CHAR(1)

PARAMS

SID:VARCHAR2(40)
URL:VARCHAR2(150)
INI_PATH:VARCHAR2(150)
TEMP_PATH:VARCHAR2(150)

TRIG_RULES

SEQ_NBR:NUMBER
SUMM:DTL:CHAR(1)
RULES:VARCHAR2(1000)

2.2 / 3.3 -- 3:10:05 PM, 8/26/99

FIG. 51

PLAN_TABL

STATEMENT_ID:VARCHAR2(30)
 TIMESTAMP:DATE
 REMARKS:VARCHAR2(80)
 OPERATION:VARCHAR2(30)
 OPTIONS:VARCHAR2(30)
 OBJECT_NODE:VARCHAR(128)
 OBJECT_OWNER:VARCHAR2(30)
 OBJECT_NAME:VARCHAR2(30)
 OBJECT_INSTANCE:VARCHAR2(30)
 OBJECT_TYPE:VARCHAR2(30)
 OPTIMIZER:VARCHAR2(255)
 SEARCH_COLUMNS:NUMBER
 ID:NUMBER
 PARENT_ID:NUMBER
 POSITION:NUMBER
 COST:NUMBER
 CARDINALITY:NUMBER
 BYTES:NUMBER
 OTHER_TAG:VARCHAR2(255)
 PARTITION_START:VARCHAR2(255)
 PARTITION_STOP:VARCHAR2(255)
 PARTITION_ID:NUMBER
 OTHER:LONG

INVEST_FIRST

SEQ_NBR:NUMBER
 TYPEOUT:CHAR(1)
 RECID:NUMBER
 PAGENUM:NUMBER
 DEALNBR:VARCHAR2(10)
 PAYDATE:DATE
 NAME1:VARCHAR2(200)
 NAME2:VARCHAR2(200)
 NAME3:VARCHAR2(200)
 NAME4:VARCHAR2(200)
 NAME5:VARCHAR2(200)
 NAME6:VARCHAR2(200)
 NAME7:VARCHAR2(200)
 NAME8:VARCHAR2(200)
 NAME9:VARCHAR2(200)
 VALUCOM:VARCHAR2(30)
 TYPEREC:CHAR(1)
 TYPEB:CHAR(1)

INVEST_ACC

TYPEOUT:VARCHAR2(1)
 RECID:NUMBER
 PAGENUM:NUMBER
 SORTORDER:NUMBER(8,3)
 TIER:CHAR(1)
 NAME1:VARCHAR2(200)
 NAME2:VARCHAR2(200)
 NAME3:VARCHAR2(200)
 NAME4:VARCHAR2(200)
 NAME5:VARCHAR2(200)
 NAME6:VARCHAR2(200)
 NAME7:VARCHAR2(200)
 NAME8:VARCHAR2(200)
 NAME9:VARCHAR2(200)
 VALUE1:VARCHAR2(30)
 VALUE2:VARCHAR2(30)
 VALUE3:VARCHAR2(30)
 VALUE4:VARCHAR2(30)
 TYPEREC:CHAR(1)

MOSTRECENTFYDDSCR:NUMBER(14,2)
 MOSTRECENTFYDPHYSOCC:NUMBER(14,2)
 MOSTRECENTFYDSTARTDATE:DATE
 MOSTRECENTFYDENDDATE:DATE
 MOSTRECENTAPPRAISALDATE:DATE
 MOSTRECENTAPPRAISALVAL:NUMBER(14,2)
 WORKOUTSTRATCODE:NUMBER(14,2)
 MOSTRECENTSPECSRVCTRASDATE:DATE
 MOSTRECENTMSTRSRVCRETDATE:DATE
 EXPECTDRESOLVEDATE:DATE
 YRLASTRENOVATED:DATE
 YLDMINTCHG:NUMBER(14,2)
 YLDRATE:NUMBER(17,11)
 PROPINSPECDATE:DATE
 SPECSRVCCOMMENTS:VARCHAR2(255)
 FINSTMNTDATE:DATE
 NUMMTHSREVANNUALIZED:NUMBER(3)
 OUTPROPPROTADV:NUMBER(14,2)
 CURRPIADVCODE:NUMBER(2)
 RECDELINQ:NUMBER(14,2)
 CURTAILDATE:DATE
 LOANCNTBEG:NUMBER(6)
 LOANCNTEND:NUMBER(6)
 CURTAILAMT:NUMBER(14,2)
 PAIDINFULL:NUMBER(1)
 REPURCHASEDPRIN:NUMBER(14,2)
 REPURCHASEDINT:NUMBER(14,2)
 NO30DAYDELINQ:NUMBER(6)
 BAL30DAYDELINQ:NUMBER(14,2)
 NO60DAYDELINQ:NUMBER(6)
 BAL60DAYDELINQ:NUMBER(14,2)
 NO90DAYDELINQ:NUMBER(6)
 BAL90DAYDELINQ:NUMBER(14,2)
 NO120DAYDELINQ:NUMBER(6)
 BAL120DAYDELINQ:NUMBER(14,2)
 NOOFFERCLOSURES:NUMBER(6)
 BALOFFERCLOSURE:NUMBER(14,2)
 NOOFFREQ:NUMBER(6)
 BALOFFREQ:NUMBER(14,2)
 DELINQPRIN:NUMBER(14,2)
 DELINQINT:NUMBER(14,2)
 ADVPRIN:NUMBER(14,2)
 ADVINT:NUMBER(14,2)
 PPIS:NUMBER(14,2)
 OTHER1:NUMBER(24,10)
 OTHER2:NUMBER(24,10)
 OTHER3:NUMBER(24,10)
 OTHER4:NUMBER(24,10)
 OTHER5:NUMBER(24,10)
 OTHER6:NUMBER(24,10)
 OTHER7:NUMBER(24,10)
 OTHER8:NUMBER(24,10)
 OTHER9:NUMBER(24,10)
 OTHER10:NUMBER(24,10)
 OTHER11:NUMBER(24,10)
 OTHER12:NUMBER(24,10)
 OTHER13:NUMBER(24,10)
 OTHER14:NUMBER(24,10)
 OTHER15:NUMBER(24,10)
 REMTERM:NUMBER(3)
 INSPROCEEDS:NUMBER(14,2)
 RELACTSHORTFALL:NUMBER(14,2)
 PAYOFFINTAMT:NUMBER(14,2)
 PAYOFFPRINAMT:NUMBER(14,2)
 INSURERDEFAULT:NUMBER(1)
 SERVICERDEFAULT:NUMBER(1)
 BONDSARECALLED:NUMBER(1)
 SCHEDNETINT:NUMBER(14,2)
 SCHEDGROSSINT:NUMBER(14,2)
 OTHER16:NUMBER(24,10)
 OTHER17:NUMBER(24,10)
 OTHER18:NUMBER(24,10)
 OTHER19:NUMBER(24,10)
 OTHER20:NUMBER(24,10)
 OTHER21:NUMBER(24,10)
 OTHER22:NUMBER(24,10)
 OTHER23:NUMBER(24,10)
 OTHER24:NUMBER(24,10)
 OTHER25:NUMBER(24,10)
 OTHER26:NUMBER(24,10)
 OTHER27:NUMBER(24,10)

MOSTRECENTFYDDSCR:NUMBER(14,2)
 MOSTRECENTFYDPHYSOCC:NUMBER(14,2)
 MOSTRECENTFYDSTARTDATE:DATE
 MOSTRECENTFYDENDDATE:DATE
 MOSTRECENTAPPRAISALDATE:DATE
 MOSTRECENTAPPRAISALVAL:NUMBER(14,2)
 WORKOUTSTRATCODE:NUMBER(14,2)
 MOSTRECENTSPECSRVCTRASDATE:DATE
 MOSTRECENTMSTRSRVCRETDATE:DATE
 EXPECTDRESOLVEDATE:DATE
 YRLASTRENOVATED:DATE
 YLDMINTCHG:NUMBER(14,2)
 YLDRATE:NUMBER(17,11)
 PROPINSPECDATE:DATE
 SPECSRVCCOMMENTS:VARCHAR2(255)
 FINSTMNTDATE:DATE
 NUMMTHSREVANNUALIZED:NUMBER(3)
 OUTPROPPROTADV:NUMBER(14,2)
 CURRPIADVCODE:NUMBER(2)
 RECDELINQ:NUMBER(14,2)
 CURTAILDATE:DATE
 LOANCNTBEG:NUMBER(6)
 LOANCNTEND:NUMBER(6)
 CURTAILAMT:NUMBER(14,2)
 PAIDINFULL:NUMBER(1)
 REPURCHASEDPRIN:NUMBER(14,2)
 REPURCHASEDINT:NUMBER(14,2)
 NO30DAYDELINQ:NUMBER(6)
 BAL30DAYDELINQ:NUMBER(14,2)
 NO60DAYDELINQ:NUMBER(6)
 BAL60DAYDELINQ:NUMBER(14,2)
 NO90DAYDELINQ:NUMBER(6)
 BAL90DAYDELINQ:NUMBER(14,2)
 NO120DAYDELINQ:NUMBER(6)
 BAL120DAYDELINQ:NUMBER(14,2)
 NOOFFERCLOSURES:NUMBER(6)
 BALOFFERCLOSURE:NUMBER(14,2)
 NOOFFREQ:NUMBER(6)
 BALOFFREQ:NUMBER(14,2)
 DELINQPRIN:NUMBER(14,2)
 DELINQINT:NUMBER(14,2)
 ADVPRIN:NUMBER(14,2)
 ADVINT:NUMBER(14,2)
 PPIS:NUMBER(14,2)
 OTHER1:NUMBER(24,10)
 OTHER2:NUMBER(24,10)
 OTHER3:NUMBER(24,10)
 OTHER4:NUMBER(24,10)
 OTHER5:NUMBER(24,10)
 OTHER6:NUMBER(24,10)
 OTHER7:NUMBER(24,10)
 OTHER8:NUMBER(24,10)
 OTHER9:NUMBER(24,10)
 OTHER10:NUMBER(24,10)
 OTHER11:NUMBER(24,10)
 OTHER12:NUMBER(24,10)
 OTHER13:NUMBER(24,10)
 OTHER14:NUMBER(24,10)
 OTHER15:NUMBER(24,10)
 REMTERM:NUMBER(3)
 INSPROCEEDS:NUMBER(14,2)
 RELACTSHORTFALL:NUMBER(14,2)
 PAYOFFINTAMT:NUMBER(14,2)
 PAYOFFPRINAMT:NUMBER(14,2)
 INSURERDEFAULT:NUMBER(1)
 SERVICERDEFAULT:NUMBER(1)
 BONDSARECALLED:NUMBER(1)
 SCHEDNETINT:NUMBER(14,2)
 SCHEDGROSSINT:NUMBER(14,2)
 OTHER16:NUMBER(24,10)
 OTHER17:NUMBER(24,10)
 OTHER18:NUMBER(24,10)
 OTHER19:NUMBER(24,10)
 OTHER20:NUMBER(24,10)
 OTHER21:NUMBER(24,10)
 OTHER22:NUMBER(24,10)
 OTHER23:NUMBER(24,10)
 OTHER24:NUMBER(24,10)
 OTHER25:NUMBER(24,10)
 OTHER26:NUMBER(24,10)
 OTHER27:NUMBER(24,10)
 OTHER28:NUMBER(24,10)

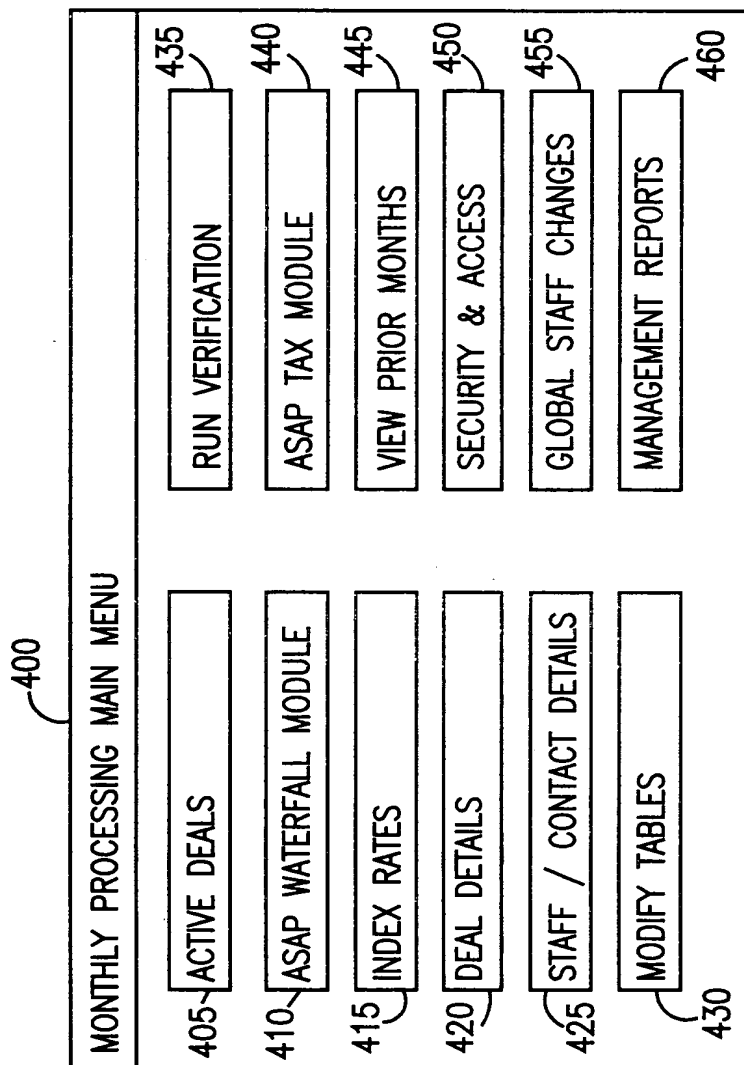
FIG. 5J

DEALSETUPTEMP

DEALNBR: VARCHAR2(10)
 NAME: VARCHAR2(255)
 PRICINGDATE: DATE
 CLOSINGDATE: DATE
 CUTOFFDATE: DATE
 FIRSTPAYDATE: DATE
 CALLOPTCOLLATPCT: NUMBER(17,11)
 CALLOPTBONDPCT: NUMBER(17,11)
 BONDPAYFREQ: NUMBER(3)
 UNDERWRITER: VARCHAR2(30)
 UNDERWRITERCONTACT: VARCHAR2(30)
 UNDERWRITERPHONE: VARCHAR2(14)
 UNDERWRITERFAX: VARCHAR2(14)
 UNDERWRITEREMAIL: VARCHAR2(50)
 ISSUER: VARCHAR2(30)
 ISSUERCONTACT: VARCHAR2(30)
 ISSUERPHONE: VARCHAR2(14)
 ISSUERFAX: VARCHAR2(14)
 ISSUEREMAIL: VARCHAR2(50)
 TRUSTEE: VARCHAR2(30)
 TRUSTEECONTACT: VARCHAR2(30)
 TRUSTEEPHONE: VARCHAR2(14)
 TRUSTEEFAX: VARCHAR2(14)
 TRUSTEEEMAIL: VARCHAR2(50)
 ANALYST: VARCHAR2(30)
 ANALYSTCONTACT: VARCHAR2(30)
 ANALYSTPHONE: VARCHAR2(14)
 ANALYSTFAX: VARCHAR2(14)
 ANALYSTEMAIL: VARCHAR2(50)
 BONDADMIN: VARCHAR2(30)
 BONDADMINCONTACT: VARCHAR2(30)
 BONDADMINPHONE: VARCHAR2(14)
 BONDADMINFAX: VARCHAR2(14)
 BONDADMINEMAIL: VARCHAR2(50)
 TAXADMIN: VARCHAR2(30)
 TAXADMINCONTACT: VARCHAR2(30)
 TAXADMINPHONE: VARCHAR2(14)
 TAXADMINFAX: VARCHAR2(14)
 TAXADMINEMAIL: VARCHAR2(50)
 RULES: LONG
 STRUCTYPE: NUMBER(3)
 IRSCENTER: VARCHAR2(50)
 PERCENT7701: VARCHAR2(10)
 PERCENT856: VARCHAR2(10)
 ORIGAIP: NUMBER(14,2)
 AFR: NUMBER(17,11)
 COLLATDETAIL: NUMBER(17,11)
 PRICINGSCENARIO: VARCHAR2(25)
 TAKEOVERDATE: DATE
 BONDSTRIP1286: NUMBER(17,11)
 SERVICER: VARCHAR2(30)
 SERVICERCONTACT: VARCHAR2(30)
 SERVICERPHONE: VARCHAR2(14)
 SERVICERFAX: VARCHAR2(14)
 SERVICEREMAIL: VARCHAR2(50)
 TRUSTEEADDRESS: VARCHAR2(50)
 TRUSTEECITY: VARCHAR2(20)
 TRUSTEESTATE: VARCHAR2(2)
 TRUSTEEZIP: VARCHAR2(10)
 RUNTAX: NUMBER(1)
 RUNMP: NUMBER(1)
 BONDACCUALPER: NUMBER(2)
 COLLATINPVUSED: NUMBER(2)
 MDTIERAGG: NUMBER(2)
 NONSTANDARDOPTIONS: NUMBER(14)
 REMITRATE: NUMBER(17,11)
 RECORDDATE: DATE

OTHER27: NUMBER(24,10)
 OTHER28: NUMBER(24,10)
 OTHER29: NUMBER(24,10)
 OTHER30: NUMBER(24,10)
 SUBSTAMPTPRIN: NUMBER(14,2)
 SUBSTAMTINT: NUMBER(14,2)
 SUBSTBALANCE: NUMBER(14,2)
 BALLOONLNSNUM: NUMBER(6)
 BALLOONLNSBAL: NUMBER(14,2)
 BANKRUPTCYNUM: NUMBER(6)
 BANKRUPTCYBAL: NUMBER(14,2)
 CRAMDOWNLOSSES: NUMBER(14,2)
 REINVESTINCOME: NUMBER(14,2)
 REPURCHASENUM: NUMBER(6)
 REPURCHASEBAL: NUMBER(14,2)
 SPECHAZLOSSAMT: NUMBER(14,2)
 ACTUALSERVFEES: NUMBER(14,2)
 LIQUIDNUM: NUMBER(6)
 LIQUIDBAL: NUMBER(14,2)
 RECOVEREDELINQADV: NUMBER(14,2)
 ARREARS: NUMBER(14,2)
 PREFUNDINT: (14,2)
 BOOKVALUERO: NUMBER(14,2)
 SUBSTAMTINT: NUMBER(14,2)
 OTHER31: NUMBER(24,10)
 OTHER32: NUMBER(24,10)
 OTHER33: NUMBER(24,10)
 OTHER34: NUMBER(24,10)
 OTHER35: NUMBER(24,10)
 OTHER36: NUMBER(24,10)
 OTHER37: NUMBER(24,10)
 OTHER38: NUMBER(24,10)
 OTHER39: NUMBER(24,10)
 OTHER40: NUMBER(24,10)
 OTHER41: NUMBER(24,10)
 OTHER42: NUMBER(24,10)
 OTHER43: NUMBER(24,10)
 OTHER44: NUMBER(24,10)
 OTHER45: NUMBER(24,10)
 OTHER46: NUMBER(24,10)
 OTHER47: NUMBER(24,10)
 OTHER48: NUMBER(24,10)
 OTHER49: NUMBER(24,10)
 OTHER50: NUMBER(24,10)
 OTHER51: NUMBER(24,10)
 OTHER52: NUMBER(24,10)
 OTHER53: NUMBER(24,10)
 OTHER54: NUMBER(24,10)
 OTHER55: NUMBER(24,10)
 OTHER56: NUMBER(24,10)
 OTHER57: NUMBER(24,10)
 OTHER58: NUMBER(42,10)
 OTHER59: NUMBER(24,10)
 OTHER60: NUMBER(24,10)
 OTHER61: NUMBER(24,10)
 OTHER62: NUMBER(24,10)
 OTHER63: NUMBER(24,10)
 OTHER64: NUMBER(24,10)
 OTHER65: NUMBER(24,10)
 OTHER66: NUMBER(24,10)
 OTHER67: NUMBER(24,10)
 OTHER68: NUMBER(24,10)
 OTHER69: NUMBER(24,10)
 OTHER70: NUMBER(24,10)
 BALSUB30DAYDELINQ: NUMBER(14,2)
 NOSUB30DAYDELINQ(6)
 NONRECOVERABLEDELINQADV: NUMBER(14,2)

OTHER27: NUMBER(24,10)
 OTHER28: NUMBER(24,10)
 OTHER29: NUMBER(24,10)
 OTHER30: NUMBER(24,10)
 SUBSTAMPTPRIN: NUMBER(14,2)
 SUBSTAMTINT: NUMBER(14,2)
 SUBSTBALANCE: NUMBER(14,2)
 BALLOONLNSNUM: NUMBER(6)
 BALLOONLNSBAL: NUMBER(14,2)
 BANKRUPTCYNUM: NUMBER(6)
 BANKRUPTCYBAL: NUMBER(14,2)
 CRAMDOWNLOSSES: NUMBER(14,2)
 REINVESTINCOME: NUMBER(14,2)
 REPURCHASENUM: NUMBER(6)
 REPURCHASEBAL: NUMBER(14,2)
 SPECHAZLOSSAMT: NUMBER(14,2)
 ACTUALSERVFEES: NUMBER(14,2)
 LIQUIDNUM: NUMBER(6)
 LIQUIDBAL: NUMBER(14,2)
 RECOVEREDELINQADV: NUMBER(14,2)
 ARREARS: NUMBER(14,2)
 PREFUNDINT: (14,2)
 BOOKVALUERO: NUMBER(14,2)
 SUBSTAMTINT: NUMBER(14,2)
 OTHER31: NUMBER(24,10)
 OTHER32: NUMBER(24,10)
 OTHER33: NUMBER(24,10)
 OTHER34: NUMBER(24,10)
 OTHER35: NUMBER(24,10)
 OTHER36: NUMBER(24,10)
 OTHER37: NUMBER(24,10)
 OTHER38: NUMBER(24,10)
 OTHER39: NUMBER(24,10)
 OTHER40: NUMBER(24,10)
 OTHER41: NUMBER(24,10)
 OTHER42: NUMBER(24,10)
 OTHER43: NUMBER(24,10)
 OTHER44: NUMBER(24,10)
 OTHER45: NUMBER(24,10)
 OTHER46: NUMBER(24,10)
 OTHER47: NUMBER(24,10)
 OTHER48: NUMBER(24,10)
 OTHER49: NUMBER(24,10)
 OTHER50: NUMBER(24,10)
 OTHER51: NUMBER(24,10)
 OTHER52: NUMBER(24,10)
 OTHER53: NUMBER(24,10)
 OTHER54: NUMBER(24,10)
 OTHER55: NUMBER(24,10)
 OTHER56: NUMBER(24,10)
 OTHER57: NUMBER(24,10)
 OTHER58: NUMBER(42,10)
 OTHER59: NUMBER(24,10)
 OTHER60: NUMBER(24,10)
 OTHER61: NUMBER(24,10)
 OTHER62: NUMBER(24,10)
 OTHER63: NUMBER(24,10)
 OTHER64: NUMBER(24,10)
 OTHER65: NUMBER(24,10)
 OTHER66: NUMBER(24,10)
 OTHER67: NUMBER(24,10)
 OTHER68: NUMBER(24,10)
 OTHER69: NUMBER(24,10)
 OTHER70: NUMBER(24,10)



*LIMITED ACCESS

FIG. 6

CONTACT DETAILS	
ID:	<div><div></div><div>V</div><div>602</div><div>608</div></div>
FIRST NAME:	<div><div>604</div><div></div><div>MI:</div><div></div><div>606</div><div>LAST NAME:</div><div></div><div>V</div><div>610</div></div>
ADDRESS:	<div><div></div><div>CITY:</div><div></div><div>V</div><div>612</div></div>
	<div><div></div><div>STATE:</div><div></div><div>V</div><div>614</div></div>
	<div><div></div><div>COUNTRY:</div><div></div><div>V</div><div>616</div></div>
	<div><div></div><div>ZIP:</div><div></div><div>622</div></div>
PHONE:	<div><div>618</div><div></div><div>FAX:</div><div></div><div>620</div><div>E MAIL:</div><div></div></div>
FTP ADDRESS:	<div><div></div><div>624</div></div>
URL:	<div><div></div><div>626</div></div>
FUNCTIONAL TITLE:	<div><div></div><div>628</div></div>
DEPT/ORG:	<div><div></div><div>V</div><div>630</div></div>
	<div><div>634</div><div>INTERNAL STAFF</div><div>636</div><div>EXTERNAL CONTACT</div></div>
ROLE:	<div><div></div><div>V</div><div>632</div></div>
<div><div>CANCEL</div><div>640</div><div>OK</div><div>642</div></div>	

FIG. 7A

700

DEAL MODIFY

DEAL ID:

CCC97C

724

DEAL STATUS:

ACTIVE DEAL

728

734a

DEAL DESCRIPTION:

CHASE CREDIT CARD 1997C

706

708

716

702

714

716	702	714	712	710	708	706	704	702	714
SETUP	OUTPUT	CONTACTS	STEPS	QUALITY CONTROL	INPUT	HEADER/FOOTER			
WATERFALL		V	NYC	V	MONTHLY	V	11/25/1998	V	722
TAX		V	TX	V	MONTHLY	V	11/25/1998	V	723
ADMINISTRATION		V	NYC	V	NA	V		V	
		V		V		V		V	
		V		V		V		V	
		V		V		V		V	
		V		V		V		V	

734

CANCEL

730

OK

732

FIG. 7B

DEAL MODIFY

DEAL ID: CCC97C V 782

DEAL DESCRIPTION: CHASE CREDIT CARD 1997C 784

752	704	754	756	758	760	750			
SETUP	OUTPUT	CONTACTS	STEPS	QUALITY CONTROL	INPUT	HEADER/FOOTER			
REPORT TYPE			FORMAT	REL DATE	TITLE				
BULLETIN BOARD	V	CERTIFICATE HOLDE	V	EXCEL/STYLE1	V	DISTRIBU	V	CERTIFICATE HOLDERS REPORT	V
RTP	V	CERTIFICATE HOLDE	V	HTML	V	IMMEDI	V	CERTIFICATE HOLDERS REPORT	
INTERNET	V	INVESTOR	V	HTML	V	DISTRIBU	V	CERTIFICATE HOLDERS REPORT	
INTERNET	V	WATERFALL	V	HTML	V	DISTRIBU	V	WATERFALL REPORT	
	V		V		V		V		
	V		V		V		V		
	V		V		V		V		
788									
788a									
788q									

762

764

786

CANCEL 778

OK 780

FIG. 7C

DEAL MODIFY

DEAL ID: CCC97C V 802

DEAL DESCRIPTION: CHASE CREDIT CARD 1997C 804

706

SETUP OUTPUT CONTACTS STEPS QUALITY CONTROL INPUT HEADER/FOOTER 801

806 NAME 808 COMPANY 812 COMPANY 814 ROLE 816 PHONE 820 ADD NEW CONTACT

832a 832b 832c 832d 832e 832f 832g 832h 832

V	JOHN PUBLIC PAINE WEBBER SERVICER	212-555-5555	19 PARK AVENUE	^
V	MARY	CONTACT ANALYST 718-777-7777 EXT XXXX	381 FIFTH AVENUE	
V				
V				
V				
V				
V				
V				
V				V

822 CANCEL 824 OK

FIG. 7D

FIG. 7G

FIG. 7H

1000

INDEX RATES

1005 NAME

1010 DESCRIPTION

1015 SOURCE

1020

1025

1030 RATE DATE

1035 RATE

FIG. 8

GLOBAL STAFF/CONTACT CHANGES

1055

STAFF/CONTACT:

ALLEN LEE

▼

REPLACEMENT:

JANE NEW

▼

1065

QUEUE TYPE:

▼

1060

1070

DEAL ID	DEAL NAME	QUEUE
CCC97A	CREDIT CARD	DATA READY READY FOR ASAP APPROVAL
CCC96C	CREDIT CARD	
CCC96A	CREDIT CARD	

CANCEL

1075

REPLACE

1080

OK

1085

FIG. 9

1105

ROLE: ADMINISTRATOR

1110

1125

FUNCTIONS

VIEW PRIOR MONTHS
INDEX RATES
DEAL DETAILS
STAFF/CONTACT DETAILS
GLOBAL STAFF CHANGES
MANAGEMENT REPORTS
SECURITY & ACCESS
ASAP
ACTIVE DEALS
ALL
ALL

1130

ACTIVITIES

DATA READY (LRPS)
COMMENTS
PRINTING

1135

READ

☒
☒
☒
☒
☒
☒
☒
☒
☒
☒
☒
☒
☒

1140

WRITE

☒
☒
☒
☒
☒
☒
☒
☒
☒
☒
☒
☒
☒

1115

CANCEL

1120

OK

1100

FIG. 10

1505 USER: ALLEN LEE 1

1520a DEAL NAME: 1

1530a ☒ CURRENT ITEMS / 1530c 1530d 1530e

1515 QUEUE:

1520b FUNCTION: WATERFALL - MONTHLY 1

1530f ☒ ALL ITEMS 1530g 1510 1530h

DEAL ID	DEAL NAME	PERIOD	FUNCTION	QUEUE	STATUS	DATE IN QUEUE	USER
R CCC97A	CREDIT CARD	11/1997	WATERFA	DATA READY	N	04/03/1998	ALLEN LEE
R CCC96C	CREDIT CARD	11/1997	WATERFA	READY FOR ASAP	H	04/03/1998	ALLEN LEE
R CCC96A	CREDIT CARD	11/1997	WATERFA	ASAP APPR		04/03/1998	ALLEN LEE

APPROVE—1535a

DENY—1535b

REPORTS—1535c

COMMENTS—1535d

GO TO DEAL HISTORY—1535e

UN-APPROVE—1535f

CANCEL—1535g

1

FIG. 11

1540

CERTIFICATE HOLDER REPORT		▲
WATERFALL		
PSA		
INVESTOR REPORT		
LOAN LEVEL DETAIL		
		▼
▼		▲

FIG. 12A

1555a

DEAL:

CCC95B

CHASE CREDIT CARD

1555b

PERIOD ENDING:

11/25/1997

1555c

FUNCTION:

WATERFALL-MONTHLY

1555d

ADD

1575

1560

DATE	FUNCTION	QUEUE	STATUS	NAME	COMMENT TYPE	DETAILS
04/11/1998	WATERFALL-	APPROVAL	READY	JOE	BEGINING BALANCE	NO ONLY OFF B
04/07/1998	WATERFALL-	DATA READY	NOT READY	BETTY	TAPE DAMAGED	1570h
04/01/1998	WATERFALL-	DATA READY	READY	PAT	TAPE DELAYED	
1570b	1570c	1570d	1570e	1570f	1570g	

CANCEL

1580

1585

OK

FIG. 12B

1595a

DEAL:

CCC95B

CHASE CREDIT CARD

1595b

PERIOD ENDING:

11/25/1997

1595c

FUNCTION:

WATERFALL-MONTHLY

1595d

QUEUE:

READY FOR ASAP

1595e

STATUS:

DENIED

1595f

NAME:

MARY PUBLIC

1595g

TYPE OF COMMENT:

1

MODEL INCORRECT

1600

ADDITIONAL COMMENTS

1605

GAVE TO MODELER TO CORRECT. SHOULD BE READY MONDAY.

1

1

CANCEL

1610

OK

1615

1590

FIG. 12C

1625

DEAL:

CCC97A

1640

1630

PERIOD ENDING:

01/01/1998

1635

FUNCTION:

WATERFALL--MONTHLY

1645

1655a

1655b

1655c

1655d

1655e

QUEUE	STATUS	ACTION	DATE/TIME COMPLETED	NAME
DATA READY	READY	APPROVED	11/23/1997, 12:30 PM	BETTY KIN
LOAN LEVEL PROCESSED	READY	APPROVED	11/23/1997, 12:30 PM	BOB ORE
READY FOR ASAP	READY	APPROVED	11/23/1997, 12:30 PM	SAM PU
RUN ASAP	READY	APPROVED	11/23/1997, 12:30 PM	ALICE FRE
APPROVAL	READY	APPROVED	11/23/1997, 12:30 PM	ELENA CO
APPROVAL	READY	APPROVED	11/23/1997, 12:30 PM	WENDY B
APPROVAL	READY	DENIED	11/23/1997, 12:30 PM	TOM MAC
-				

1560

MAIN MENU

FIG. 12D

☐ ASAP

ASAP + WINDOW

☐ MONTHLY COLLATERAL PROCESSING SCREEN

DEAL # DATE

1715

GROUP NUMBER

1720 1730

1740 LABEL 1745 VALUE 1725

NUMBER OF REO LOANS	0
BALANCE OF REO LOANS	0
BOOK VALUE OF REO LOANS	0
NUMBER OF LOANS IN BACKRUPT	84
BALANCE OF LOANS IN BANKRUPT	4685942.52
NUMBER OF BALLOONS LOANS	5938
BALANCE OF BALLOON LOANS	423082965.59
GROSS LIQUIDATION PROCEEDS	0
LIQUIDATION EXPENSES	0
UNREIMBURSED DELINQ ADVANC	0

1750

1755

FIG. 13A

[illegible][illegible]

FIG. 13B

REPORT DEAL SETUP

SELECT DEAL NAME

1905

1910

SELECT PAYDATE

DESCRIPTION

1

2

3

4

5

6

7

8

9

10

LABEL

1

2

3

4

5

6

7

8

9

10

COPY SETUP FORM ANOTHER DEAL

COPY FROM

FIG. 13C

1950

DEAL ID: 1955

DEAL NAME: 1960

CURRENT
DISTRIBUTION DATE: 1965

CORRECTED
DISTRIBUTION DATE: 1970

1980 1975

FIG. 13D

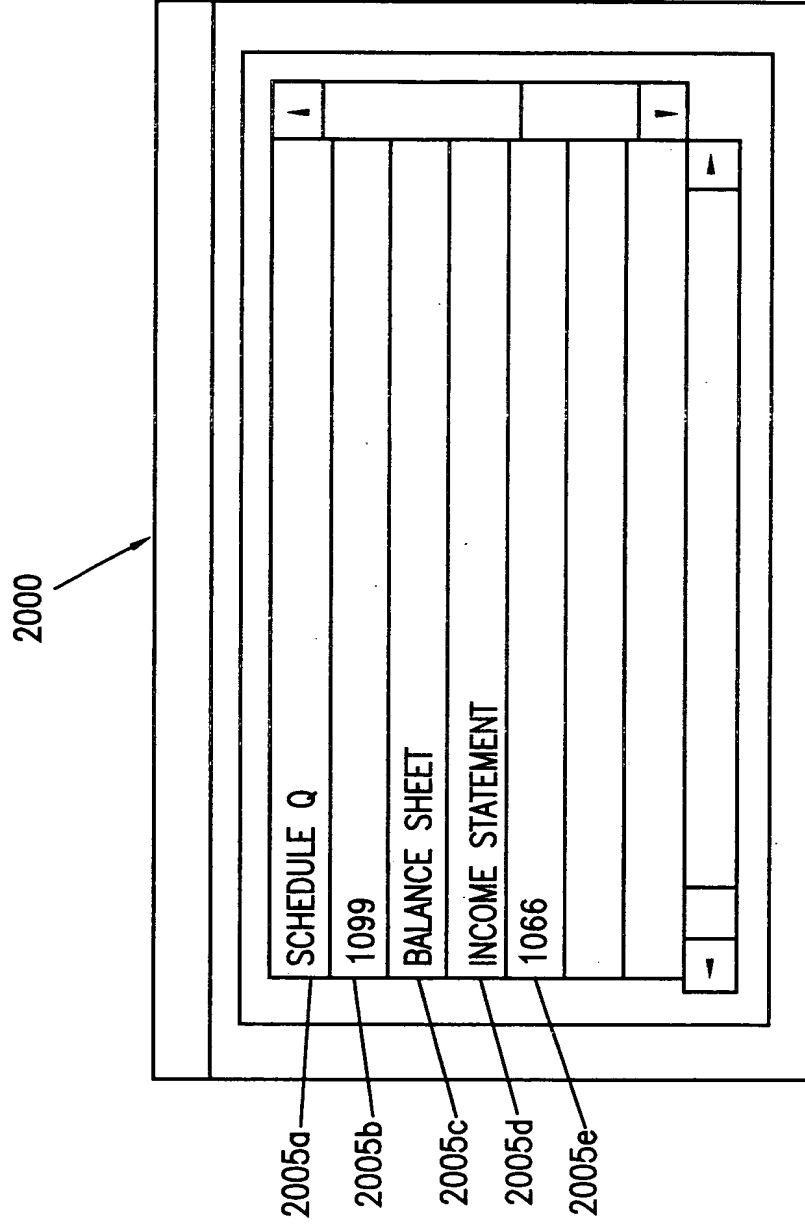


FIG. 14


```

graph TD
    2150[DEFINE DEAL SPECIFIC PARAMETERS] --> 2155{RATIO OF LOSSES TO OUTSTANDINGS IS GREATER THEN X%}
    2155 -- NO 2170 --> OK[OK]
    2155 -- YES 2175 --> CANCEL[CANCEL]
    2155 -- NO 2180 --> UNDO[UNDO]
    2155 -- YES 2185 --> 2190
    subgraph 2190 [Table]
        direction TB
        T1[PARA 1]
        T2[PARA 2]
        T3[PARA 3]
        T4[ ]
        T5[ ]
        T6[ ]
        T7[ ]
    end
    2190 --> 2195[+]
    2195 --> 2160[ ]
  
```

2150 DEFINE DEAL SPECIFIC PARAMETERS

2155 VERIFICATION : RATIO OF LOSSES TO OUTSTANDINGS IS GREATER THEN X%

2170 OK

2175 CANCEL

2180 UNDO

2185

	PERCENT DIFFERENCE	OUTSTAND	OUTSTANDING BALANCE	REALIZED LOSSES FOR
PARA 1				
PARA 2				
PARA 3				

2195

2160

FIG. 15C

2250

2255		2255a	
DEAL:	CCC96A	▼	CHASE CREDIT CARD
FUNCTION:	WATERFALL	▼	2260
FIRST PAYMENT DATE:	1/11/1997	▼	2265
LAST PAYMENT DATE:	1/11/1997	▼	2270
CANCEL		2280	
OK		2275	

FIG. 16

AUTOMATED VERIFICATIONS

DEAL: CMFC90D CHASE MORTGAGE FINANCIAL SERIES 1990 D
DATE(S): 1/25/1999 - 2/25/1999
CURRENT PERIOD: 2/25/99
CURRENT FUNCTION: WATERFALL
CURRENT QUEUE: DATA RECEIVED

TITLE: RATIO OF LOSSES TO OUTSTANDINGS IS GREATER THAN X% FOR EACH GROUP
QUEUE: DATA RECEIVED
BY TYPE: GROUP
PERIOD ENDING: 2/25/99

		VARIABLE ID	VARIABLE DESCRIPTION	VALUE
GROUP 1	REALIZED		REALIZED LOSSES FOR GROUP	100
	OUTSTANDING		OUTSTANDING BALANCE FOR GROUP	1222

VARIABLES:

GROUP 2	REALIZED		REALIZED LOSSES FOR GROUP	2344
	OUTSTANDING		OUTSTANDING BALANCE FOR GROUP	3466

PARAMETERS:

	PARA1		MAXIMUM PERCENT	0.05
--	-------	--	-----------------	------

CALCULATIONS:

	REALIZED / OUTSTAND	>	PARA 1	
--	---------------------	---	--------	--

RESULTS:

GROUP 1	100 / 1222 = .0818	>	.05	WARNING
GROUP 2	2344 / 3466 = .6784	>	.05	WARNING

PAGE 1

FIG. 17

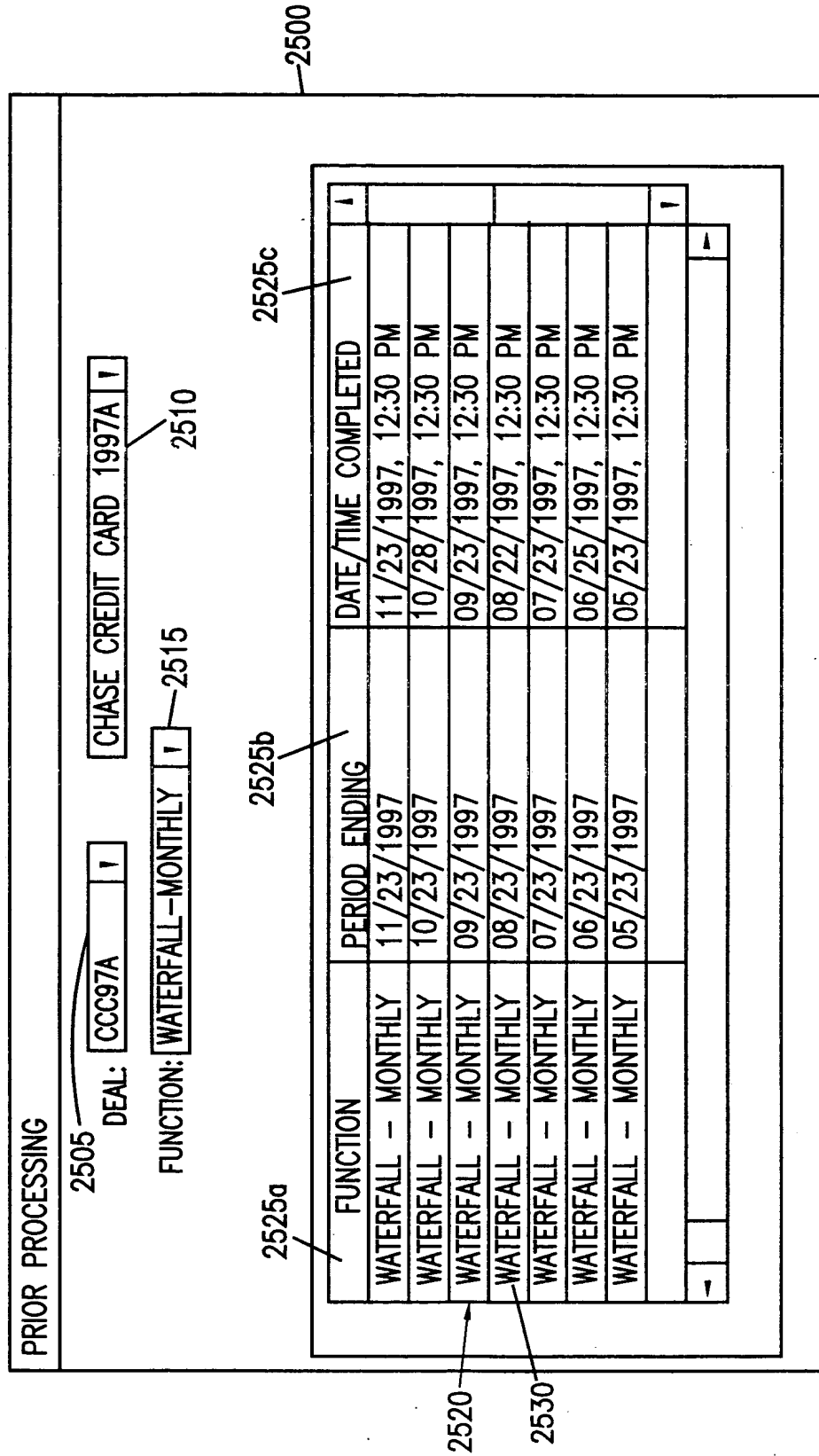


FIG. 18A

2550

OPTIONS	
2555a	REPORTS
2555b	RESTATE NON-FINANCIAL
2555c	RESTATE FINANCIAL
2555d	SELECT PRIOR VERSION
2555e	COMMENTS
2555f	VIEW COMMENTS
2555g	RESTORE FROM PRIOR VERSION
2555h	EXIT
	←

FIG. 18B

2600

RESTATED PROCESSES

2605

DEAL: CCC97A

CHASE CREDIT CARD 1997A

2610

FUNCTION: WATERFALL - MONTHLY

2615

PERIOD ENDING:

11/23/97

2620

DATE/TIME COMPLETED

12/20/1997, 12:30 PM

11/28/1997, 12:30 PM

11/23/1997, 12:30 PM

2625

FIG. 19A

2650

OPTIONS	
REPORTS	▲
MAKE VERSION OF RECORD	
COMMENTS	
EXIT	▲
◀	▶

2655a

2655b

2655c

2655d

FIG. 19B